STR-GX800ES/GX900ES

SERVICE MANUAL

US Model
Canadian Model
STR-GX800ES/GX900ES
AEP Model
E Model
Australian Model
STR-GX900ES

Photo : STR-GX900ES

SPECIFICATIONS

Audio Power Specifications

(For U.S.A. and Canadian models)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 100 watts (STR-GX900ES) or 90 watts (STR-GX800ES) per channel minimum RMS power, with no more than 0.05 % total harmonic distortion from 250 milliwatts to rated output. (U.S.A. model only)

US and Canadian models :

	STR-GX900ES Surround mode (8 ohms)	STR-GX800ES Surround mode (8 ohms)
FRONT (at 20 Hz-20 kHz)	100 W + 100 W	90 W + 90 W
CENTER* (at 20 Hz-20 kHz)	100 W	90 W
REAR (at 1 kHz)	30 W + 30 W	30 W + 30 W

AEP, E and Australian models:

Surround mode (1 kHz, THD 0.8 %)	Front	100 W + 100 W
	Center*	100 W
	Rear	30 W + 30 W

* (only in the DOLBY SUR, THEATER and LIVE modes)

Other Specifications

Amplifier section (Front)

US and Canadian models :
Continuous RMS power (at 20 Hz-20 kHz)

	STR-GX900ES	STR-GX800ES
8 ohms	100 W + 100 W	90 W + 90 W
4 ohms	100 W + 100 W	90 W + 90 W

AEP model :

		Model for Scandinavian countries, Switzerland, Spain and Portugal	Model for other countries
(DIN, 1 kHz, THD 0.8 %)	8 ohms	100 W + 100 W	100 W + 100 W
	4 ohms	—	100 W + 100 W

E and Australian models :

(DIN 1 kHz, THD 0.8 %)	8 ohms	100 W + 100 W
	4 ohms	100 W + 100 W

US, Canadian, and Australian models :

		STR-GX900ES	STR-GX800ES
Dynamic power output (in the stereo mode)	8 ohms, at 1 kHz IHF	125 W + 125 W	115 W + 115 W
	4 ohms, at 1 kHz IHF	195 W + 195 W	185 W + 185 W
	2 ohms, at 1 kHz IHF	255 W + 255 W	245 W + 245 W
Frequency response	PHONO	RIAA equalization curve ±0.5 dB	
	CD, DAT/ MD, TAPE, TV, LD, VIDEO 1,2,3,	10 Hz – 50 kHz ± 1 dB (Direct pass)	
Damping factor (8 ohms, at 1kHz)		50	
Input sensitivity / impedance	PHONO MM	2.5 mV, 50 kilohms	
	CD	300 mV, 50 kilohms	
	DAT/MD, TAPE, TV, LD, VIDEO 1,2,3	250 mV, 50 kilohms	
S/N	PHONO MM	75 dB 75 dB** (A,2.5mV)	
	CD, DAT/ MD, TAPE, TV, LD, VIDEO 1,2,3	82 dB 82 dB** (A,150mV)	

** 78IHF

Output sensitivity /impedance	DAT/MD REC OUT, TAPE REC OUT, VIDEO 1,2	250 mV 10 kilohms
	HEADPHONES	Accepts headphones of high and low impedance
	SURROUND OUT REAR	1 V, 1 kilohm
	SURROUND OUT CENTER	1 V, 1 kilohm
	SURROUND OUT MONO	1 V, 1 kilohm
MUTING		–20dB
LOW BOOST		+ 7dB at 70 Hz (STR-GX900ES) + 10 dB at 70Hz (STR-GX800ES)
Low cut filter		90 Hz, 12 dB / oct
Tone (STR-GX800ES)		BASS: ± 10 dB at 100 Hz TREBLE: ± 8 dB at 10 kHz

— Continued on next page —

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents; U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

FM STEREO FM-AM RECEIVER

SONY®

Digital signal processor section

Modulation (A/D conversion)***		High Density Linear Converter
Demonstration (D/A conversion)***		High Density Linear Converter (Pulse D/A Converter)
Sampling frequency***		48 kHz
Equalizer***	Band	3-band, Bass/Treble/Mid
	Turnover frequency	Bass: 125 Hz - 1 kHz Treble: 1 kHz - 8 kHz
	Center frequency	Mid: 435 Hz – 8 kHz
	Level Slope (Q)	±10 dB, 1 dB step 3-step selectable, Wide, Mid, Narrow
Surround	ROOM SIZE***	16-step adjustable
	WALL TYPE***	16-step adjustable
	SEAT F/R and L/R***	16-step adjustable
	EFFECT***	20-step adjustable
	REVERB TIME***	16-step adjustable
	DELAY TIME	In DOLBY SUR mode 15.0 ms - 30.0 ms, 0.1 ms step (STR-GX900ES) 15.0 ms - 30.0 ms, 5 ms step (STR-GX800ES) In other sound field modes (STR-GX800ES only) 5 ms - 30.0 ms, 5ms step
	REAR LEVEL	+10 - –50 dB, 1 dB step (STR-GX900ES) +10 - –20 dB, 1 dB step (STR-GX800ES)
	CENTER LEVEL****	+10 - –50 dB, 1 dB step (STR-GX900ES) +10 - –20 dB, 1 dB step (STR-GX800ES)
	INPUT BALANCE	Automatic

*** (only for STR-GX900ES)

**** (only in the DOLBY SUR, THEATER and LIVE modes)

FM tuner section

Frequency range		87.5 – 108.0 MHz
Antenna terminals		75 ohms, unbalanced
Semsitivity at 50 dB		18.3 dBf (mono) 38.3 dBf (stereo)
Usable sensitivity		11.2 dBf, 2µV (1 HF)
S/N	Mono	USA, Canadian and Australian models : 76 dB AEP and E models : 80 dB
	Stereo	USA, Canadian and Australian models : 70 dB AEP and E models : 74 dB
Harmonic distortion at 1 kHz	Mono	0.3 %
	Stereo	0.5 %
Separation		45 dB at 1 kHz
Frequency response		30 Hz – 15 kHz $^{+0}_{-2}$ dB
Auto tuning threshold	Low	30 dBf
	High	50 dBf

AM tuner section

Frequency range	USA, Canadian and E models*: 530 – 1,710 kHz (with 10 kHz interval) 531 – 1,710 kHz (with 9 kHz interval) AEP and Australian models: 531 – 1,602 kHz
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz or 999 kHz)
S/N	54 dB (at 50 mV/m)
Harmonic distortion	0.5% (50 mV/m, 400 Hz)
Selectivity	35 dB (9 kHz), 40 dB (10 kHz)
Auto tuning threshold	55 dB/m

* You can change the AM tuning interval to 9 kHz. After tuning in any AM station, turn off the power of the receiver once. While holding down the INDEX SELECT/TUNING + button, press the POWER switch. When you change the interval, all the preset stations will be erased. To reset the interval, repeat the same procedure.

Video section

Inputs	VIDEO 1,2,3, TV, LD: 1 Vp-p 75 ohms S VIDEO 1, 2, 3, LD: Luminance (Y) 1 Vp-p 75 ohms Chrominace (C) 0.286 Vp-p 75 ohms
Outputs	VIDEO 1,2 MONITOR: 1 Vp-p 75 ohms S VIDEO 1, 2, MONITOR Luminaice (Y) 1 Vp-p 75 ohms Chrominance (C) 0.286 Vp-p 75 ohms

General

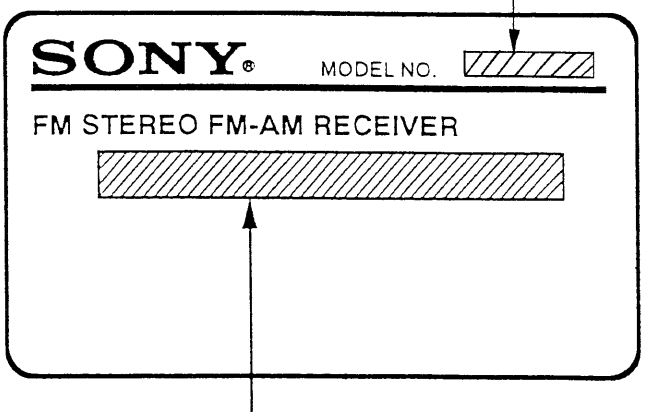
System	Tuner section	PLL quartz-locked digital synthesizer system
	Preamplifier section	Low-noise NF type equalizer
	Power amplifier section	Pure-complimentary SEPP
Power requirements		USA and Canadian models : 120 V AC, 60 Hz AEP model : 220-230V AC, 50/60 Hz E model : 120/220/240 V AC, 50/60 Hz Australian model : 240V AC, 50 Hz
Power consumption		USA model : 290 W Canadian model : 410 VA AEP, E and Australian models : 400 W
AC outlets		USA, Canadian and E models : Two switched, total 120 W/1A max. AEP and Australian models : One switched, total 100 W max.
Dimensions (including projecting parts and controls)		Approx. 430 x 160 x 425 mm (w / h / d) (17 x 6 3/8 x 16 3/4 inches)
Mass		Approx. 13.5 kg (29 lb 13 oz)

Supplied accessories
FM wire antenna (1)
AM loop antenna (1)
Remote commander RM-P341 (1)
Sony Batteries SUM-3(NS) (2)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
— Specification Label —

STR-GX800ES
STR-GX900ES



US model : AC 120V 60Hz 290W (GX800ES/GX900ES)
Canadian model : AC 120V 60Hz 410VA (GX800ES/GX900ES)
AEP model : AC 220 — 230V 50/60Hz 400W (GX900ES)
E model : AC 120/220/240V 50/60Hz 400W (GX900ES)
Australian model : AC 240V 50Hz 400W (GX900ES)

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

Section	Title	Page
1.	GENERAL	4
2.	DIAGRAMS	
2-1.	Circuit Boards Location	7
2-2.	Semiconductor Lead Layouts	9
2-3.	Block Diagram (STR-GX800ES)	11
2-4.	Block Diagram (STR-GX900ES)	15
2-5.	Printed Wiring Boards — SURROUND Section — (STR-GX800ES)	19
2-6.	Schematic Diagram — SURROUND Section — (STR-GX800ES)	23
2-7.	Schematic Diagram — SURROUND Section — (STR-GX900ES)	28
2-8.	Printed Wiring Boards — SURROUND Section — (STR-GX900ES)	33
2-9.	Printed Wiring Boards — DISPLAY Section —	38
2-10.	Schematic Diagram — DISPLAY Section —	41
2-11.	Schematic Diagram — MAIN Section —	46
2-12.	Printed Wiring Boards — MAIN Section —	51
2-13.	IC Pin Functions	
	• IC103 (HD6433248B54F) Function Controller (GX900ES)	56
	• IC106 (TC9174P) LED Driver (GX800ES)	58
	• IC150 (HD6433258B55F) Main Controller (GX900ES)	59
	• IC202 (μPD75518GF-236-3B9) Main Controller (GX800ES)	61
	• IC301 2-channels A/D Converter (AK5369VP) (GX900ES)	63
	• IC401 Digital Signal Processor (LC83015) (GX900ES)	64
3.	EXPLODED VIEWS	
3-1.	Front Panel and Cabinet Sections	66
3-2.	Back Panel Section	67
3-3.	AMP Board Section	68
4.	ELECTRICAL PARTS LIST	69

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

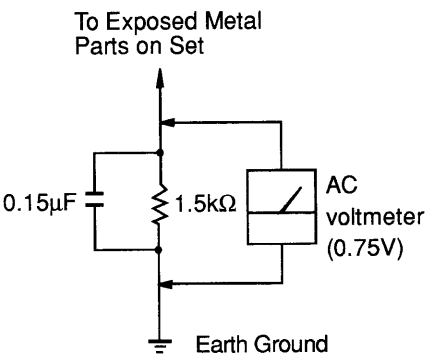
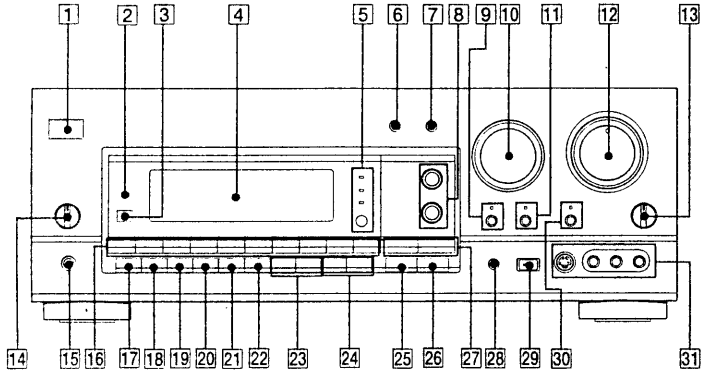


Fig. A. Using an AC voltmeter to check AC leakage.

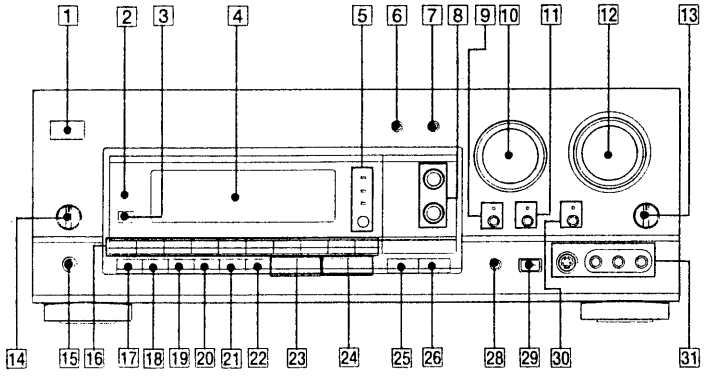
Identifying the Parts and Controls

Front Panel

STR-GX900ES



STR-GX800ES



Refer to the pages indicated in ( ) for details

1 **POWER switch**

2 **Low cut filter indicator** (10)
(U.S.A. and Canadian model)
Standby indicator (AEP, E and Australian models)

3 **Remote sensor**

4 **Display**

5 **DPC (Digital Processing Control) MODE button and indicators** (24, 25, 31, 32, 36, 37, 38)

6 **DISPLAY button** (25)

7 **FUNCTION MODE button** (13, 23)

8 **DIGITAL PROCESSING CONTROL knobs**
STR-GX900ES: PARAMETER/EQ LEVEL/CHARACTER and LEVEL/FREQUENCY/POSITION knobs (24, 25, 31, 32, 36, 37, 38)
STR-GX800ES: PARAMETER/TONE LEVEL/ CHARACTER and LEVEL/BASS/TREBLE/POSITION knobs (24, 25, 31, 32, 36, 37, 38)

9 **TAPE button and MONITOR indicator** (21)

10 **FUNCTION knob** (12)

11 **LOW BOOST button and indicator** (12)

12 **MASTER VOLUME control** (12)

13 **BALANCE control** (12)

14 **SPEAKERS selector** (12)

15 **HEADPHONES jack** (12)

16 **Numeric buttons** (16, 17, 18)

17 **SHIFT button** (16, 17, 18)

18 **DIRECT button** (16)

19 **FM/AM button** (16, 17)

20 **LEVEL button** (17)

21 **FM MODE button** (16)

22 **MEMORY button** (17)

23 **INDEX SELECT/TUNING –/+ buttons** (17, 25)

24 **PRESET TUNING –/+ buttons** (18)

25 **CENTER MODE button** (30, 31)

26 **SOUND FIELD MODE button** (20, 31)

27 **EQUALIZER BAND and SLOPE buttons** (38) (STR-GX900ES only)

28 **SOUND FIELD ON/OFF button** (20, 31, 32)

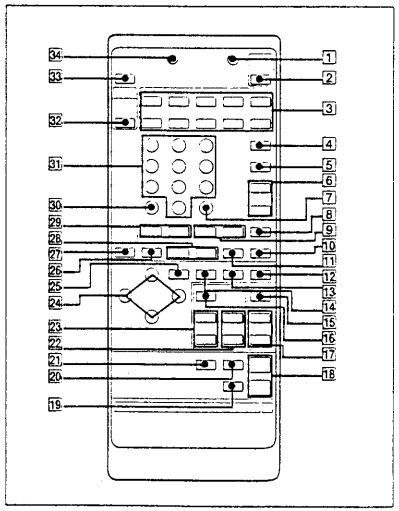
29 **DIRECT PASS button** (12)

30 **MUTING button and indicator** (12)

31 **VIDEO 3/INPUT jacks**

This section is extracted from instruction manual.

Remote Control



Refer to the pages indicated in ( ) for details.

1 **LEARN button** (27)

2 **SYSTEM OFF button** (13)

3 **SYSTEM CONTROL/FUNCTION TAPE, DAT/MD, CD, TUNER, PHONO, VIDEO 1, VIDEO 2, VIDEO 3, LD, TV buttons** (13)

4 **VISUAL POWER button** (13)

5 **TV/VIDEO, INDEX button** (13, 14)

6 **CH (channel)/PRESET +/– buttons** (14)

7 **RMS (random music sensor)/START, ENTER button** (14)

8 **ANT (antenna) TV/VTR, D (disc) SKIP button** (14)

9 **⏮, ⏭ (AMS: Automatic Music Sensor) buttons** (14)

10 **● (recording) button** (14)

11 **II (pause) button** (14)

12 **EQ (equalizer) /TONE ON/OFF button** (38)

13 **EQ (equalizer) SLOPE button** (38)

14 **EQ (equalizer) BAND button** (37)

15 **SOUND FIELD ON/OFF button** (20, 31, 32)

16 **TEST TONE button** (31)

17 **SOUND FIELD MODE +/– buttons** (20, 31)

18 **MASTER VOL +/– buttons** (12)

19 **MUTING button** (12)

20 **LOW BOOST button** (12)

21 **DIRECT (PASS) button** (12)

22 **CENTER LEVEL +/– buttons** (31)

23 **REAR LEVEL +/– buttons** (31)

24 **DIGITAL PROCESSING CONTROL buttons** (24, 26)

25 **DPC (Digital Processing Control) MODE button** (24, 25, 31, 32, 36, 37, 38)

26 **RMS (Random Music Sensor) CLEAR, ■ button** (14)

27 **BACK GROUND button** (15)

28 **◄ (forward play), ► (play), RMS (Random Music Sensor) DIRECTION buttons** (14)

29 **◄◄, ►► (seach) button** (14)

30 **> 10 (over 10), SHIFT button** (14)

31 **Numeric buttons (1 to 0)** (14)

32 **TV CONTROL ON button** (13)

33 **SLEEP button** (26)

34 **LEARN indicator** (27)

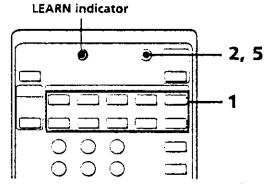
Programming the Remote Control

This remote can operate other components that are connected to the receiver. In addition, the remote can literally "learn" the signals from non-Sony components and let you control them.

Programming Signals for Non-Sony Components

Once this remote learns the signals of the other components, you can use other non-Sony components as part of your system. Also if any of your other Sony components fail to operate with this remote, use this programming function. Your remote can "learn" only the signals from remotes that are infrared wireless remotes. Before you program signals, make sure that the two remotes:

- face straight each other (as shown in step 3 below)
- are placed at a distance of approximately 2 inches (5 cm)
- are not moved during programming

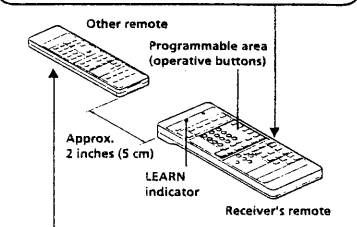


1 Press the FUNCTION button of the component to be programmed.
For example, if you want to program a CD player's remote control, press CD.

2 Press the LEARN button with a ball-point pen, etc., so that the indicator lights up.

3 Program a signal.

① On this receiver's remote, press the button that is to "learn" the signal from the other remote until the LEARN indicator blinks slowly.



② On the other remote, hold down the button you want the receiver's remote to "learn."

③ Remove your finger(s) from the button(s) after the LEARN indicator on this remote lights up.

Note
You can program only specific buttons for specific components. See "Operative Buttons" on page 14 for a list of the buttons that can be programmed for each component type. If you press a button that cannot be programmed in step ①, the LEARN indicator blinks rapidly.

4 Repeat step 3 for other buttons that you want to program.

5 Press the LEARN button with a ball-point pen, etc.
The LEARN indicator lights for a few seconds. After the indicator goes off, you can control other components with the programmed buttons.

Note
If you do not perform the next operation in about one minute after steps 2 and 3-①, the learning mode will be canceled. If this happens, start again at step 1.

Programming a New Signal onto a Previously Programmed Button

Follow the programming procedure described on page 27. The previously programmed signal is cleared and replaced by the new signal.

To clear a programmed signal

1 Press the LEARN button with a ball-point pen, etc., so that the LEARN indicator lights up.
2 Press the button to be cleared while pressing the BACKGROUND button until the LEARN indicator goes off.

To program a signal onto the ● button for recording

It is not possible to operate any component with only the ● button. You have to program the record standby signal and record start signal under the ● + ► button on the receiver's remote. With a tape deck, you can also program the signal under the ● + ◄ button (in the reverse direction).

Notes on batteries

If the LEARN indicator does not light when a button is pressed, this means that the batteries are low.
When the batteries are low, the remote can no longer operate the unit and programming becomes impossible.
If this happens replace both batteries with new ones. We recommend you use alkaline batteries for extended use.

Listening to/Watching a Program Source (continued)

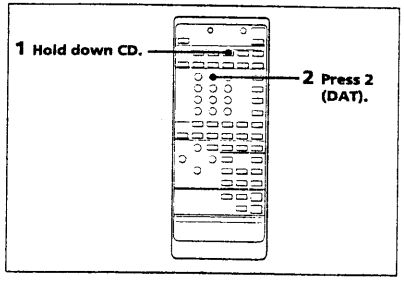
Changing the Settings of the FUNCTION Buttons

The FUNCTION buttons are preset to operate only specific components. (The CD button operates only the CD player.) However, if you want to use different components, you can change the presets to control these different components. For example, if you connect a DAT deck to the CD IN jacks, you can operate the DAT deck with the CD FUNCTION button by changing the preset function to the DAT function.

To change the settings of the FUNCTION buttons

1 Hold down the FUNCTION button that you want to change.
2 Press one of the numeric (0 to 9) buttons to select a new component.

Example: To change the CD FUNCTION button to operate a DAT deck, press 2 (for the DAT deck) while holding down the CD button.



Note

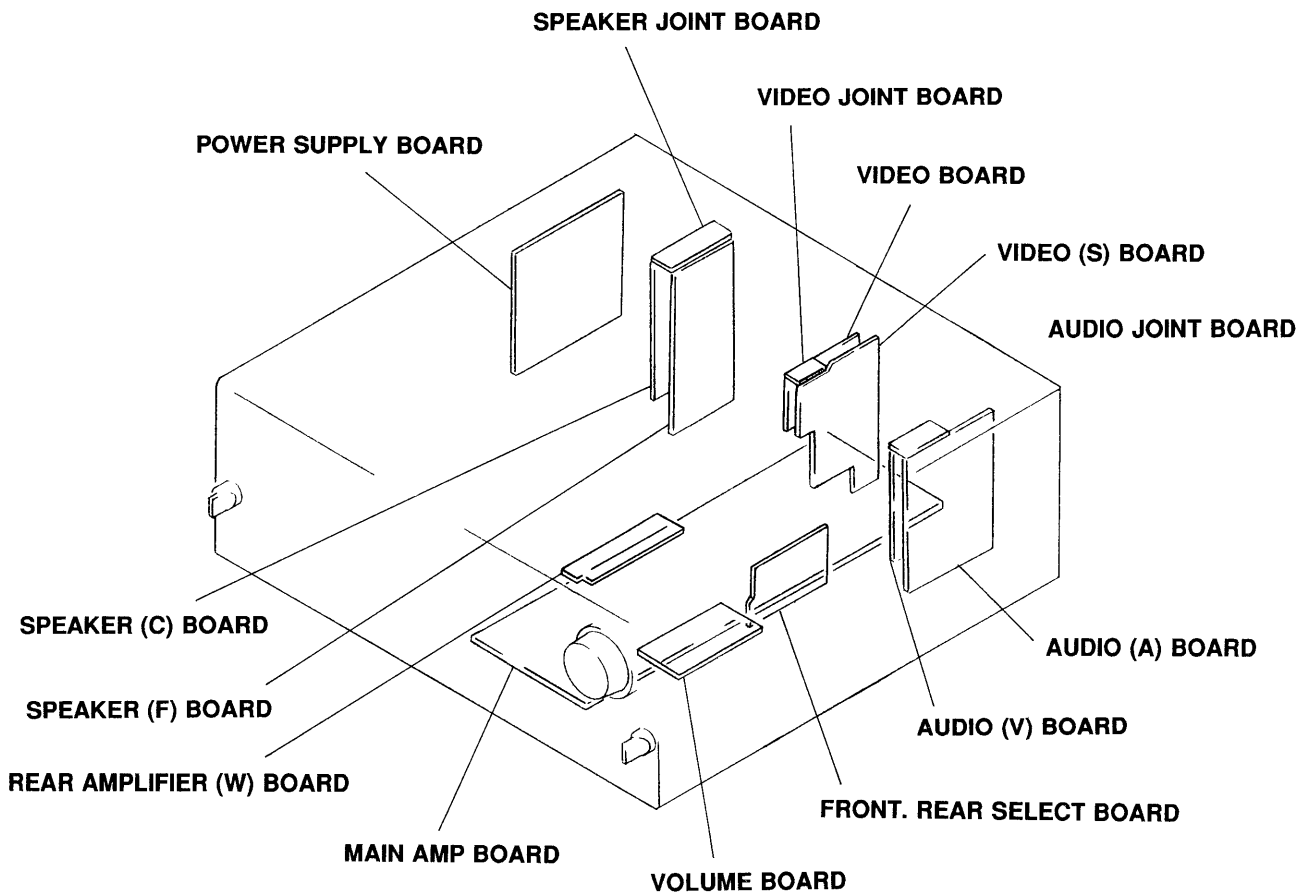
- The settings of the TUNER button and the PHONO button cannot be changed.
- To change the FUNCTION buttons back to their original preset, perform these procedures again.

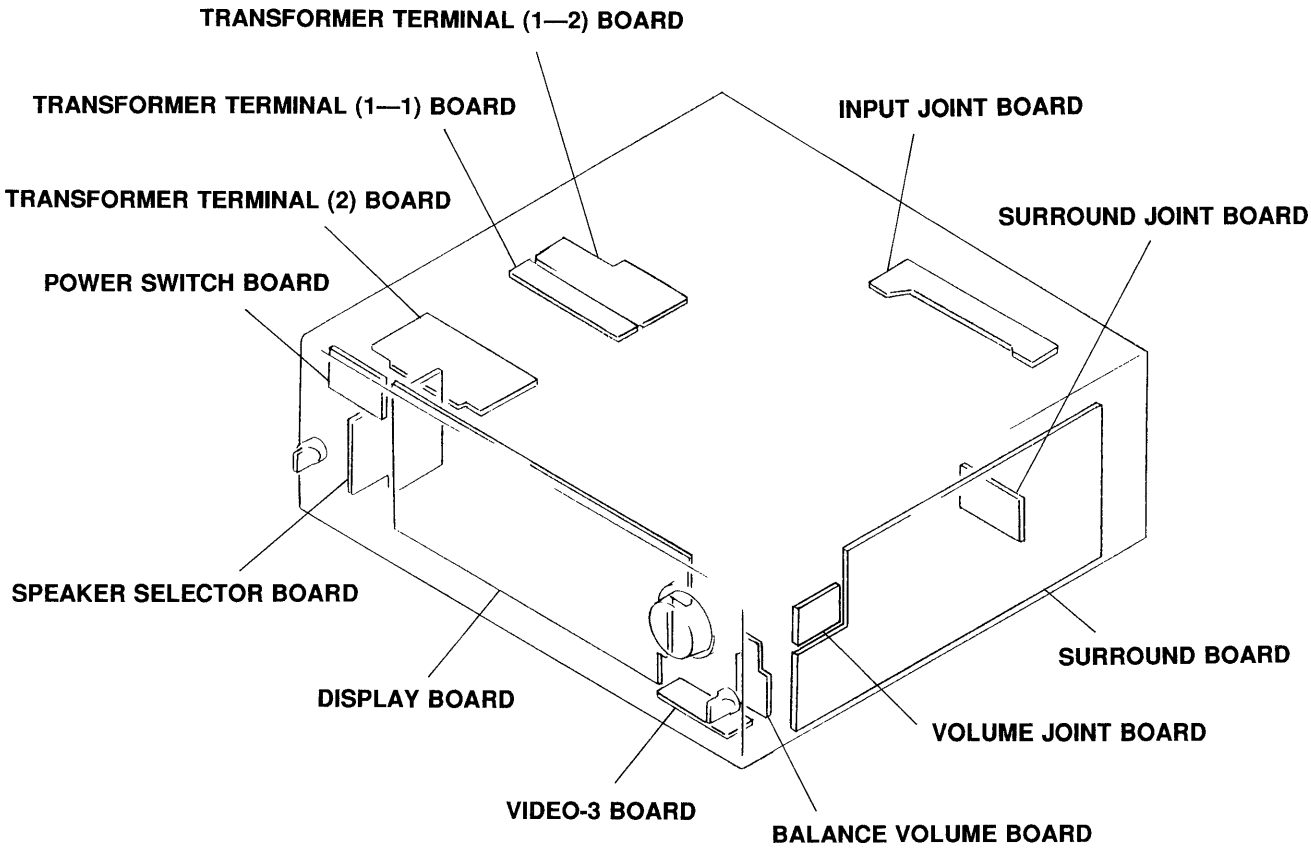
With the numeric buttons (0 to 9), each function can be selected as described in the following table:

The function to be selected	Numeric buttons
TV	0
CD player	1
DAT deck	2
MD recorder	3
DECK A	4
DECK B	5
LD player	6
VCR 1 (Remote control mode)	7
VCR 2 (Remote control mode)	8
VCR 3 (Remote control mode)	9

SECTION 2
DIAGRAMS

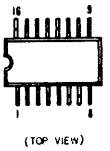
2-1. CIRCUIT BOARDS LOCATION



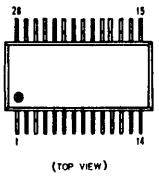

TRANSFORMER TERMINAL (1—2) BOARD
TRANSFORMER TERMINAL (1—1) BOARD
INPUT JOINT BOARD
TRANSFORMER TERMINAL (2) BOARD
SURROUND JOINT BOARD
POWER SWITCH BOARD
SPEAKER SELECTOR BOARD
SURROUND BOARD
DISPLAY BOARD
VOLUME JOINT BOARD
VIDEO-3 BOARD
BALANCE VOLUME BOARD

2-2. SEMICONDUCTOR LEAD LAYOUTS

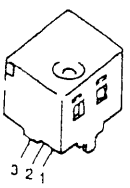
AK5369VP



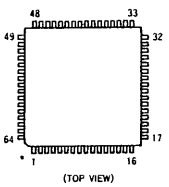
CXD2564AM



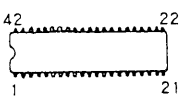
GP1U58XB



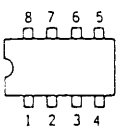
HD6433248B54F
HD6433258B55F



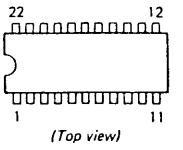
LA2785



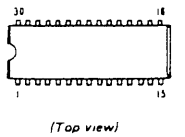
LB1639
M5218AP



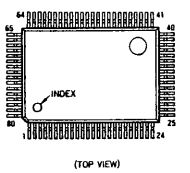
LC7535



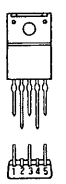
LC7822



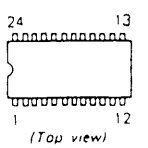
LC83015



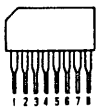
LM3875-S



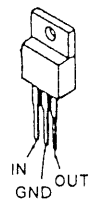
LV1010N



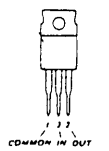
L5218AL



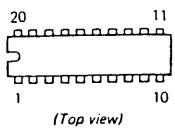
M5F78M05L
TA78M12S



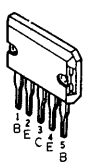
M5F79M12L



MT4C4256-8A

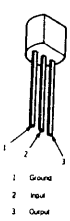


NE-N250
NE-P250

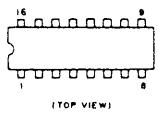


NJM78L05A

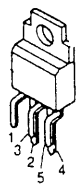
NJM79L05A



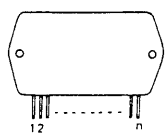
PC74HC237
SN74HC151AN
SN761200N
TC9174P
TC9184P
TC9215P



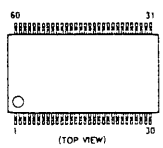
SI-18752



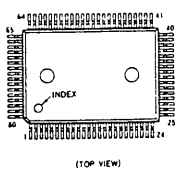
STK350-130A



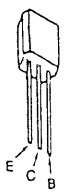
TD62C950RF



µPD75518GF-236-3B9

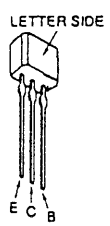


DTA114ES
DTA124ES
DTC114ES
DTC124ES
2SC2785-FEK
2SC3623A-LK



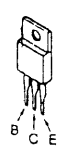
2SA988-PAFAEA

2SA1175-HFE



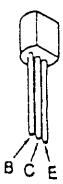
2SC1841-PAFAEA

2SC4495
2SD2012

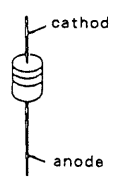


2SD774-34
2SD809-K

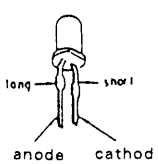
2SK246-GR3



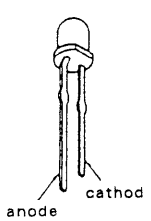
HZS4ALL
HZS6C3L
UZL-9H3
UZL-36H
UZP-5.6B
11ES2-NTA2B



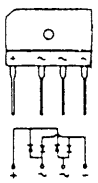
SEL2210S-TH10



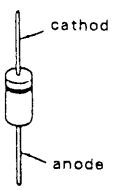
SEL2810A



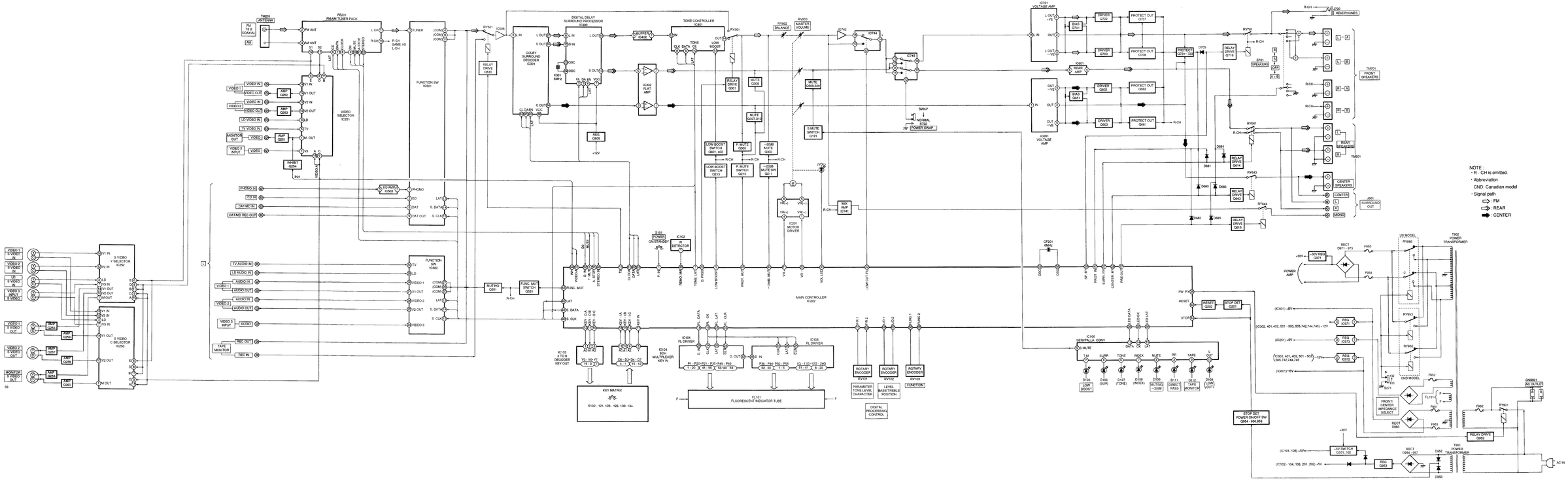
RBA-402



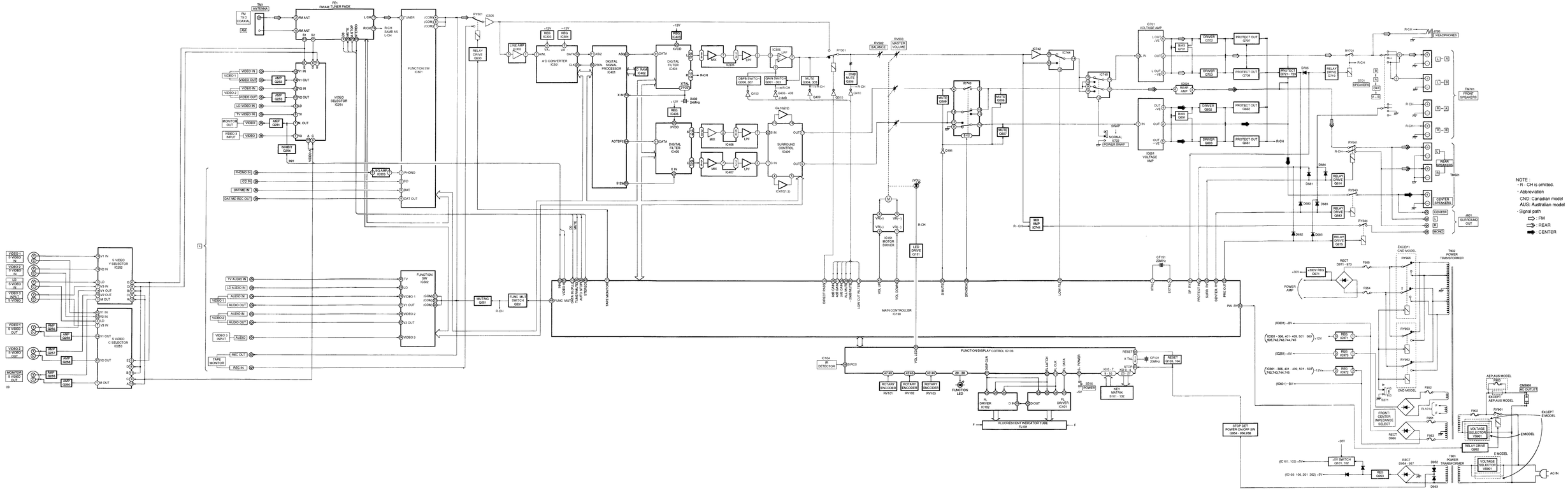
1S1585
1N4148M



2-3. BLOCK DIAGRAM (STR-GX800ES)



2-4. BLOCK DIAGRAM (STR-GX900ES)



2-5. PRINTED WIRING BOARDS — SURROUND SECTION — (STR-GX800ES)

- **See page 7 for Circuit Boards Location.**
- **See page 9 for Semiconductor Lead Layouts.**

- **Semiconductor Location**

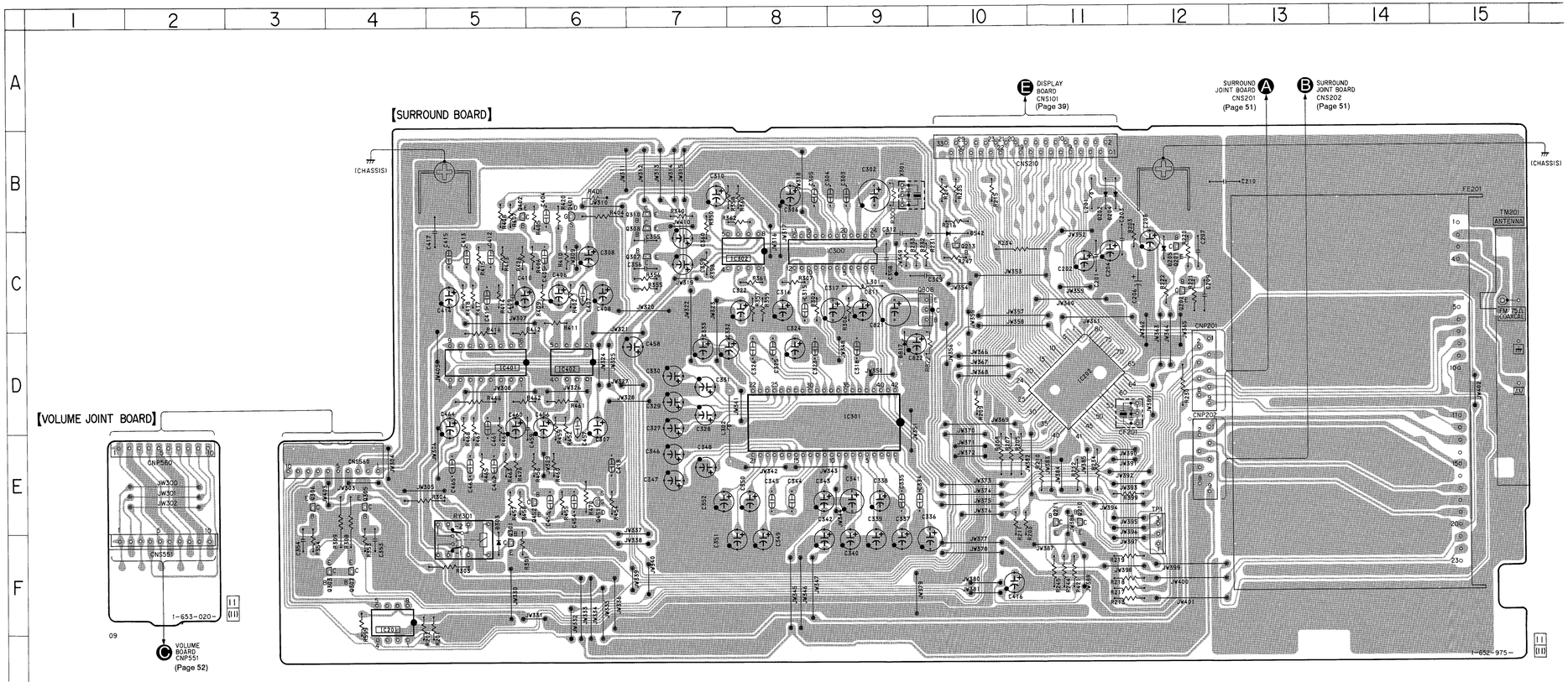
Ref. No.	Location
D202	B-11
D204	B-11
D205	C-12
D303	F-5
D542	C-10
D817	D-9
IC201	F-4
IC202	D-11
IC300	C-9
IC301	D-9
IC302	C-8
IC401	D-5
IC402	D-6
Q201	C-12
Q202	C-12
Q210	E-11
Q211	E-11
Q213	C-10
Q301	F-5
Q302	F-4
Q303	F-3
Q305	E-4
Q306	E-3
Q307	C-7
Q308	B-7
Q310	B-7
Q401	B-6
Q402	B-5
Q451	E-6
Q452	E-6
Q808	C-9

Note:

- ○—— : parts extracted from the component side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enable seeing.

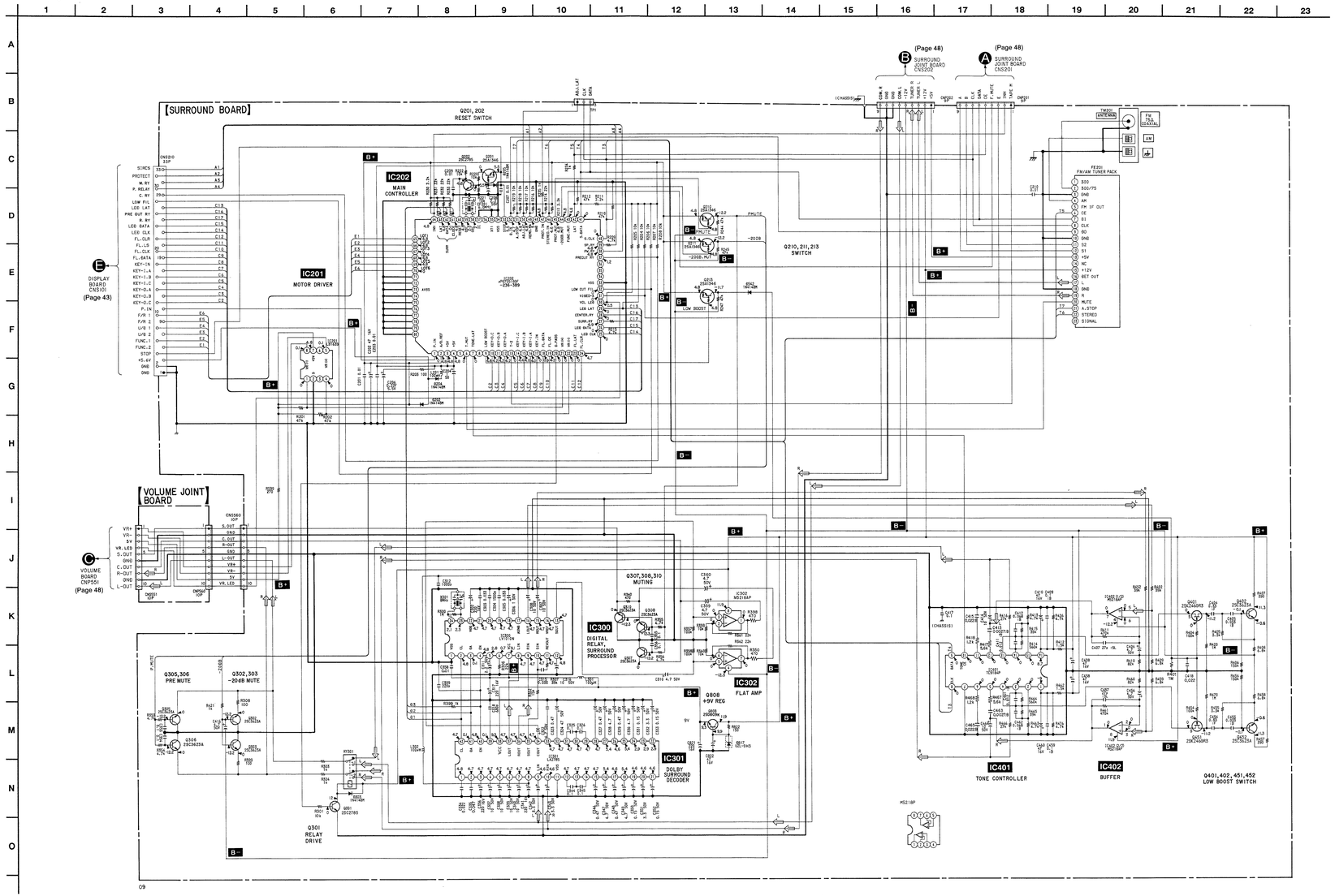
【VOLUME JOINT BOARD】

【SURROUND BOARD】



2-6. SCHEMATIC DIAGRAM — SURROUND SECTION — (STR-GX800ES)

• See page 61 for IC Pin Functions. (IC202)

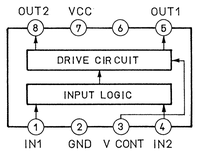


Note:

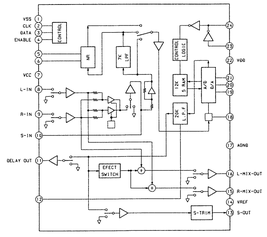
- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- [ ] : panel designation.
- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

• IC Block Diagrams

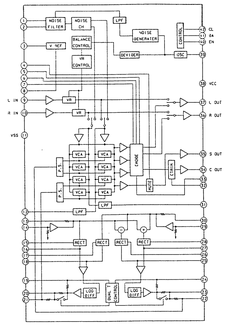
IC201 LB1639



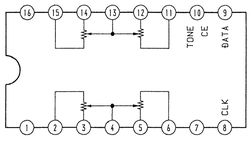
IC300 LV1010N



IC301 LA2785

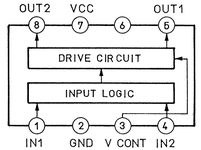


IC401 TC9184P

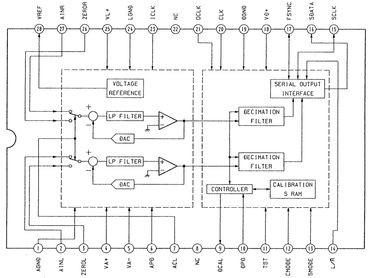


• IC Block Diagrams

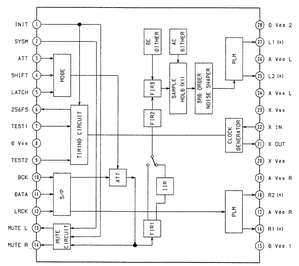
IC151 LB1639



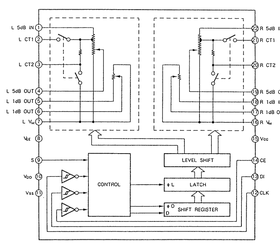
IC301 AK5369VP



IC404, 405 CXD2564AM



IC409 LC7535

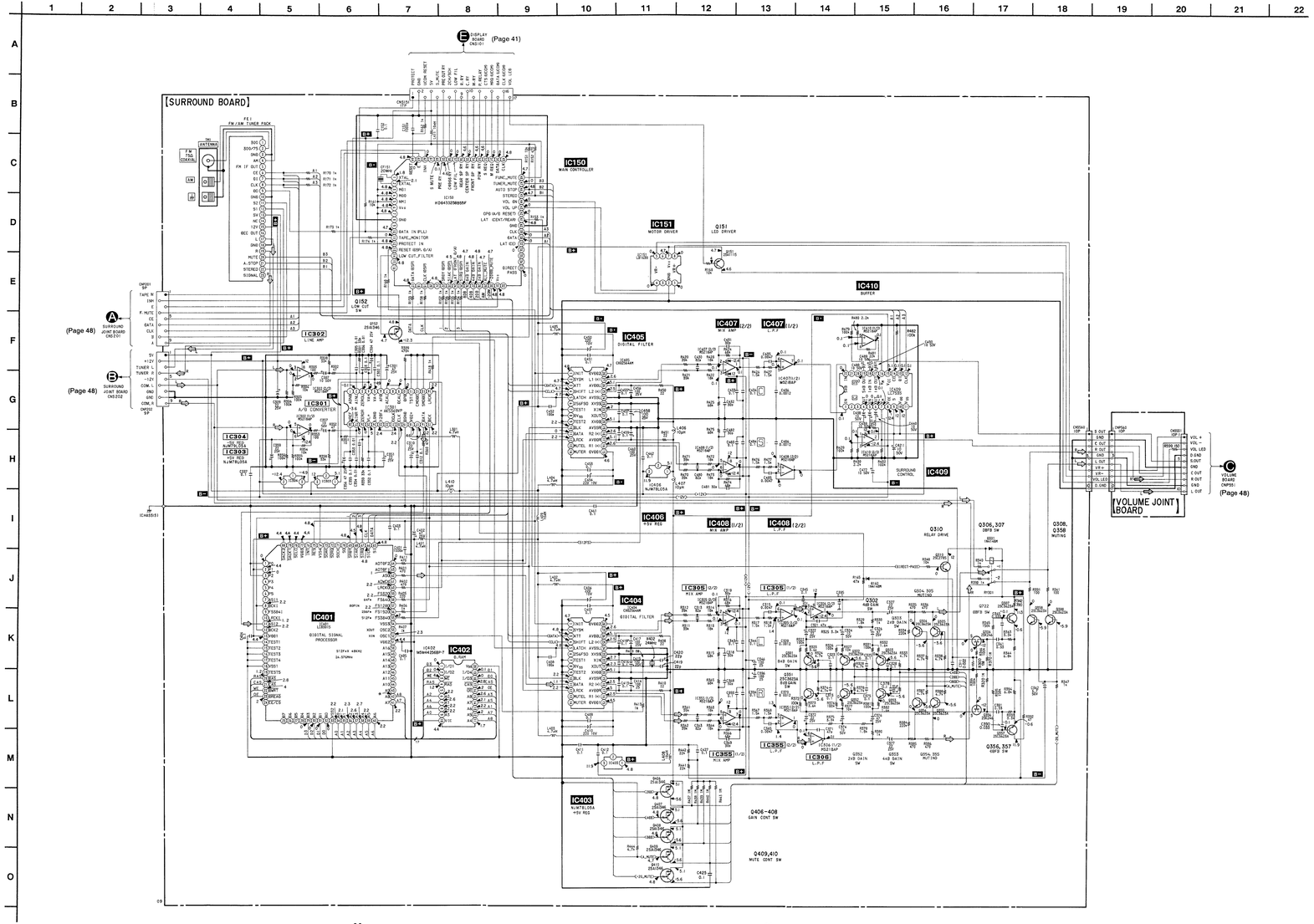


Note:

- All capacitors are in μF unless otherwise noted. pF:μμF
  50WV or less are not indicated except for electrolytics and tantaiums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- □ : panel designation.
- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

2-7. SCHEMATIC DIAGRAM — SURROUND SECTION — (STR-GX900ES)

• See pages 59, 63 for IC Pin Functions. (IC150, 202, 401)



2-8. PRINTED WIRING BOARDS — SURROUND SECTION — (STR-GX900ES)

- See page 7 for Circuit Boards Location.
- See page 9 for Semiconductor Lead Layouts.

【SURROUND BOARD】

【VOLUME JOINT BOARD】

(CHASSIS)

(CHASSIS)

E DISPLAY BOARD CNS101 (Page 39)

SURROUND JOINT BOARD CNS201 (Page 51)

A

B SURROUND JOINT BOARD CNS202 (Page 51)

C VOLUME BOARD CNP551 (Page 52)

TM1 ANTENNA

FM 75Ω COAXIAL

AM

I-653-019-

I-652-964-

- **Semiconductor Location**

Ref. No.	Location
D160	B-9
D301	F-4
IC150	D-11
IC151	F-4
IC301	F-10
IC302	F-11
IC303	F-12
IC304	F-10
IC305	C-7
IC306	C-6
IC355	B-7
IC401	C-10
IC402	B-10
IC403	B-8
IC404	C-8
IC405	F-8
IC406	E-8
IC407	F-7
IC408	E-7
IC409	F-5
IC410	F-6
Q151	F-5
Q152	C-11
Q301	D-5
Q302	D-5
Q303	D-5
Q304	E-5
Q305	E-5
Q306	D-5
Q307	D-6
Q308	E-3
Q310	E-4
Q351	C-5
Q352	C-5
Q353	C-5
Q354	C-5
Q355	C-5
Q356	C-5
Q357	C-5
Q358	E-4
Q406	D-8
Q407	D-8
Q408	D-8
Q409	D-7
Q410	D-7

Note:

- ○—— : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.

2-9. PRINTED WIRING BOARDS — DISPLAY SECTION —

- **See page 7 for Circuit Boards Location.**
- **See page 9 for Semiconductor Lead Layouts.**

- **Semiconductor Location (STR-GX900ES)**

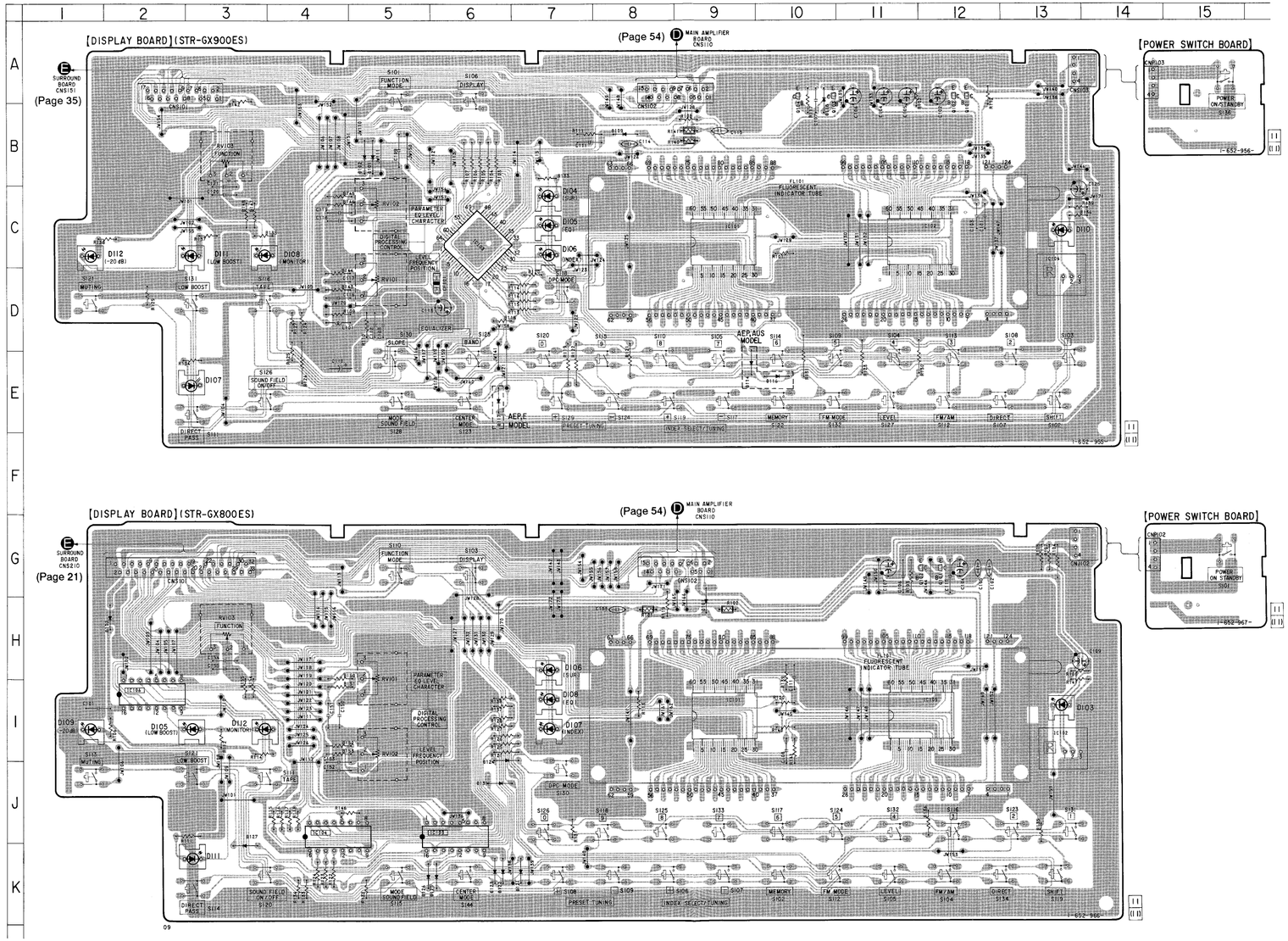
Ref. No.	Location
D101	B-5
D102	B-5
D104	C-7
D105	C-7
D106	C-7
D107	E-3
D108	C-4
D109	B-8
D110	C-14
D111	C-3
D112	C-2
D118	B-11
IC101	C-9
IC102	C-12
IC103	C-6
IC104	C-13
Q101	B-12
Q102	B-12
Q103	B-11
Q104	B-10

- **Semiconductor Location (STR-GX800ES)**

Ref. No.	Location
D101	H-9
D102	H-2
D103	I-14
D105	I-2
D106	I-7
D107	I-7
D108	I-7
D109	I-1
D111	K-3
D112	I-3
D121	K-7
D122	K-7
D123	K-7
D124	J-6
D125	K-6
D126	K-6
D127	J-4
D131	J-6
IC101	I-9
IC102	I-13
IC103	J-6
IC104	J-4
IC105	I-12
IC106	I-2
Q101	G-12
Q102	G-12

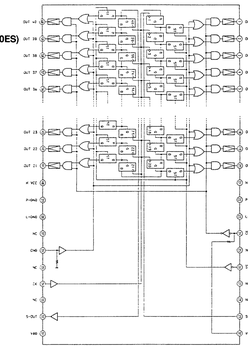
Note:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enable seeing.
- Abbreviation
  CND : Canadian model.
  AUS : Australian model.

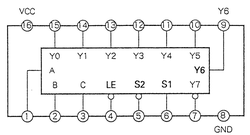


• **IC Block Diagrams**

IC101, 102 (GX900ES), 105 (GX800ES)
TD62C950RF

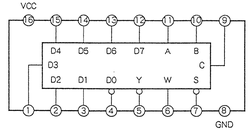


IC103 PC74HC237 (GX800ES)



INPUTS					OUTPUTS							
LE	CS1	CS2	A2	A1	A0	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
X	X	H	X	X	X	L	L	L	L	L	L	L	L
X	L	X	X	X	X	L	L	L	L	L	L	L	L
L	H	L	L	L	L	H	L	L	L	L	L	L	L
L	H	L	L	L	H	L	H	L	L	L	L	L	L
L	H	L	L	H	L	L	L	H	L	L	L	L	L
L	H	L	L	H	H	L	L	L	H	L	L	L	L
L	H	L	H	L	L	L	L	L	L	H	L	L	L
L	H	L	H	L	H	L	L	L	L	L	H	L	L
L	H	L	H	H	L	L	L	L	L	L	L	H	L
L	H	L	H	H	H	L	L	L	L	L	L	L	H
H	H	L	X	X	X	HOLD							

IC104 SN74HC151AN (GX800ES)



INPUTS				OUTPUTS	
SELECT			STROBE		
C	B	A	S	Y	W
X	X	X	H	L	H
L	L	L	L	D0	D5
L	L	H	L	D1	D1
L	H	L	L	D2	D2
L	H	H	L	D3	D3
H	L	L	L	D4	D4
H	L	H	L	D5	D5
H	H	L	L	D6	D6
H	H	H	L	D7	D7

Note:
- All capacitors are in μF unless otherwise noted. pF%%F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

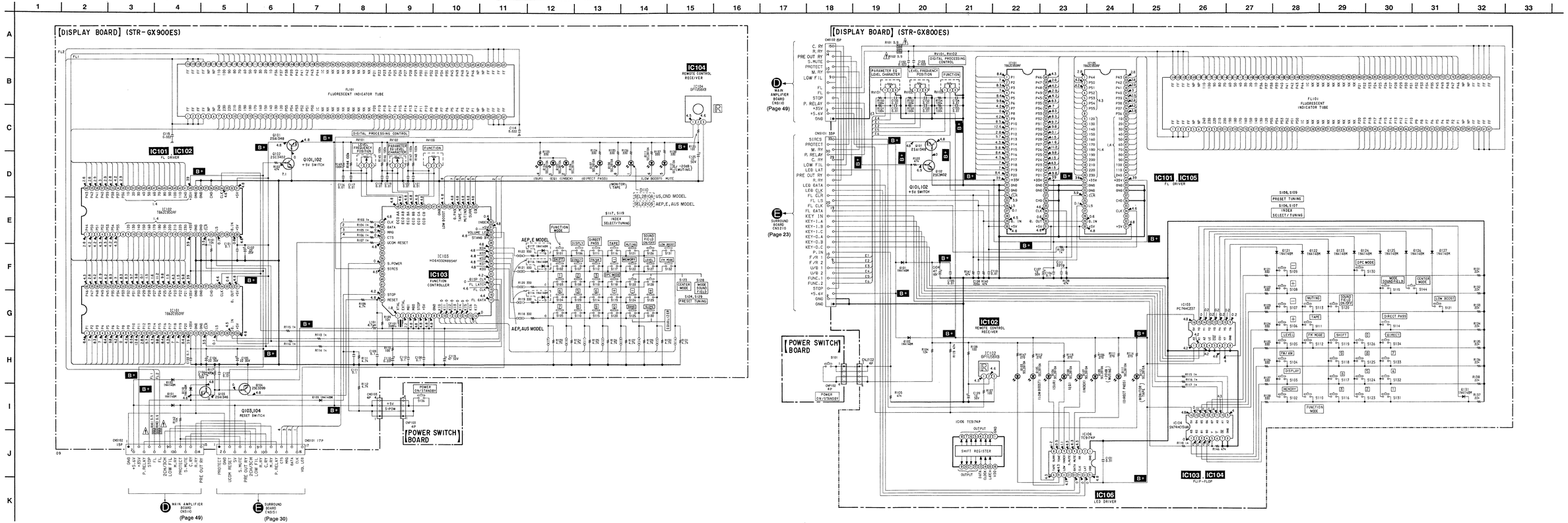
Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- **B+** : B+ Line
- **B−** : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  CND : Canadian model.
  AUS : Australian model.

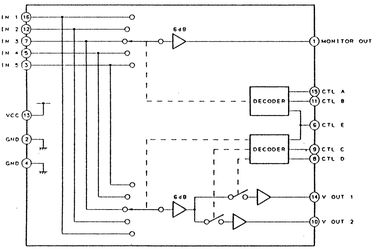
2-10. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 56 for IC Pin Functions. (IC103, 106)

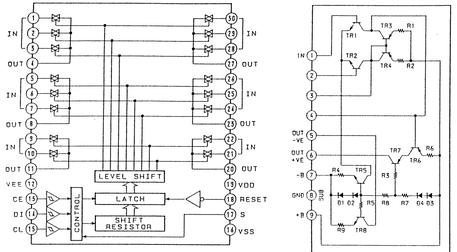


• IC Block Diagrams

IC251 SN761200N



IC501, 502 LC7822



IC651 STK350-130A

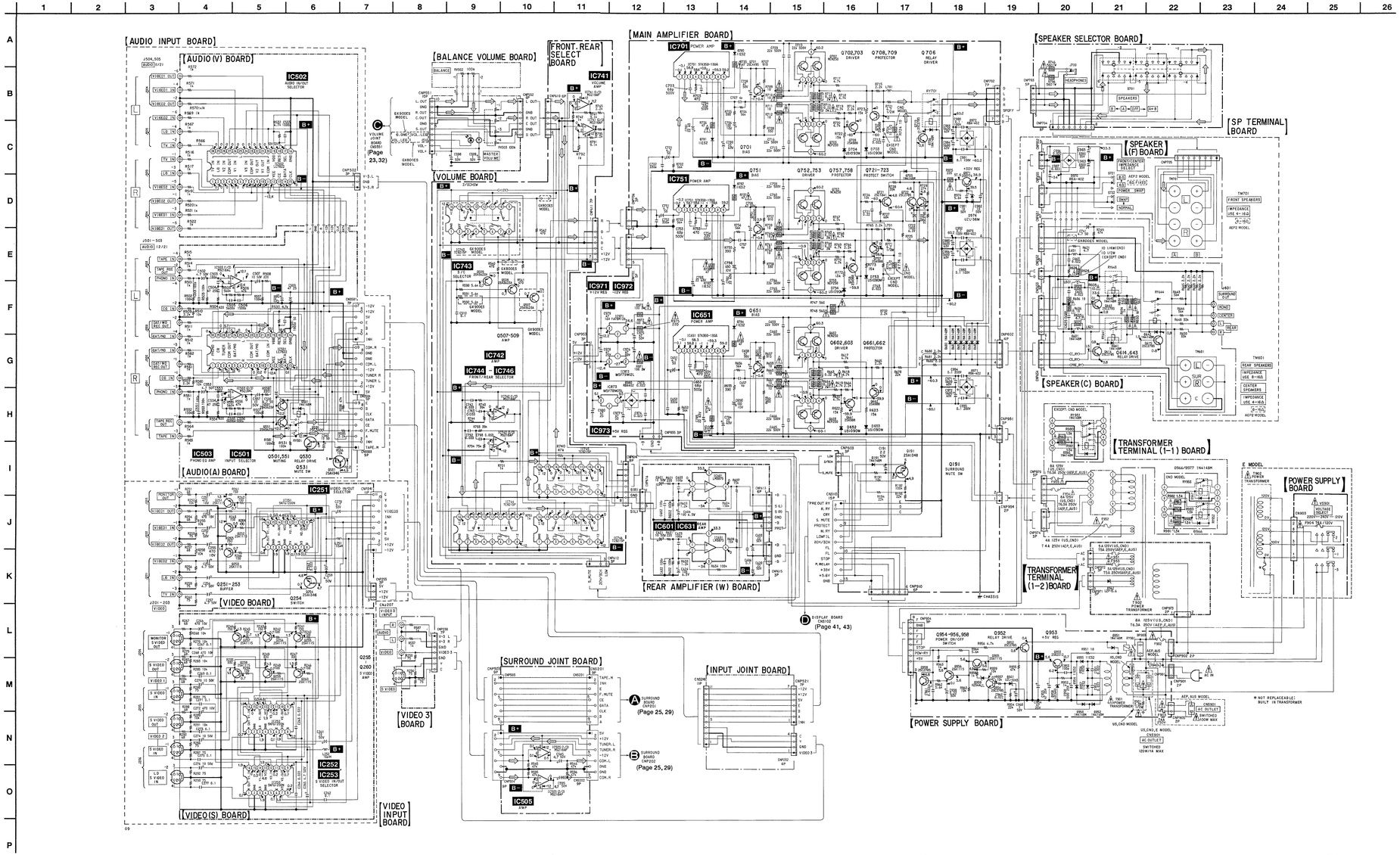
Note:
- All capacitors are in µF unless otherwise noted. pF:µµF
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ⊡ : nonflammable resistor.
- ▭ : panel designation.

Note:	Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▮B+▮ : B+ Line
- ▮B−▮ : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (deturned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviation
  CND : Canadian model.
  AUS : Australian model.

Note:
There are two type of AEP models which are depend on countries.
AEP2 : Model for Scandinavian countries, Switzerland, Spain and Portugal.
AEP1 : Model for other European countries.

2-11. SCHEMATIC DIAGRAM — MAIN SECTION —

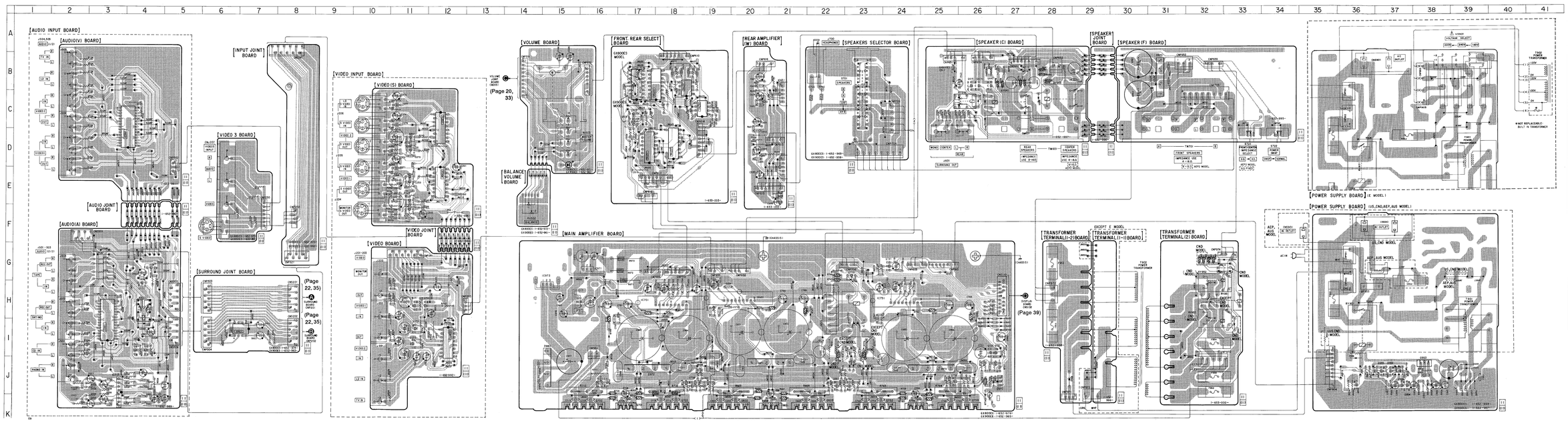


2-12. PRINTED WIRING BOARDS — MAIN SECTION —

- See page 7 for Circuit Boards Location.
- See page 9 for Semiconductor Lead Layouts.

Note:
- ○—○ : parts extracted from the component side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enable seeing.
- Abbreviation
  CND : Canadian model.
  AUS : Australian model.

Note:
There are two type of AEP models which are depend on countries.
AEP2 : Model for Scandinavian countries, Switzerland, Spain and Portugal.
AEP1 : Model for other European countries.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D191	G-25	IC742	B-18
D501	H-4	IC743	B-17
D601	C-26	IC744	B-16
D641	C-26	IC745	D-17
D642	C-26	IC746	D-18
D645	C-28	IC751	H-24
D652	J-23	IC971	G-16
D653	I-19	IC972	H-15
D680	H-27	IC973	G-15
D681	H-27		
D682	I-27	Q191	G-24
D683	H-26	Q251	H-11
D684	H-26	Q252	I-11
D685	I-26	Q253	I-11
D703	I-16	Q254	H-11
D704	I-19	Q255	E-11
D705	I-27	Q256	D-11
D706	G-23	Q257	D-11
D753	J-23	Q258	D-11
D754	J-26	Q259	E-11
D780	I-16	Q260	E-11
D781	H-18	Q501	I-4
D782	H-24	Q507	C-17
D783	H-26	Q508	C-17
D784	H-20	Q509	C-17
D785	H-22	Q530	G-4
D951	I-36	Q531	G-4
D952	J-39	Q551	I-4
D953	J-39	Q602	K-20
D954	J-39	Q603	K-22
D955	J-39	Q614	B-26
D956	J-39	Q615	B-26
D957	J-39	Q643	B-26
D958	J-38	Q651	K-21
D959	J-37	Q661	J-22
D961	J-38	Q662	J-19
D962	J-29	Q701	K-17
D966	G-33	Q702	K-16
D967	I-33	Q703	K-18
D970	B-31	Q707	J-16
D971	I-21	Q708	J-18
D972	J-17	Q719	G-23
D973	J-25	Q721	J-27
D974	J-25	Q722	I-27
D980	J-15	Q723	I-26
		Q751	K-25
IC251	I-12	Q752	K-24
IC252	C-12	Q753	K-26
IC253	E-12	Q757	J-23
IC501	H-3	Q758	K-25
IC502	C-4	Q952	J-36
IC503	J-3	Q953	J-38
IC505	I-6	Q954	J-37
IC601	D-21	Q955	J-37
IC631	B-21	Q956	J-37
IC651	H-20	Q958	J-37
IC701	H-18	Q971	J-27
IC741	C-19		

2-13. IC PIN FUNCTIONS

- **IC103 (HD6433248B54F) FUNCTION CONTROLLER (GX900ES)**

Pin No.	Pin Name	I/O	Function
1	XTAL	O	System clock output (20MHz)
2	EXTAL	I	System clock input (20MHz)
3	MD1	I	System mode input, fixed into "H". (connected +5V)
4	MD0	I	
5	STOP	I	Power supply supervising port input. (connected to +5V)
6	+5V	–	Power supply terminal (+5V)
7	–	I	+5V (out of use)
8	GND	–	GND (ground)
9	KI0	I	Key input
10	KI1	I	
11	KI2	I	
12	KI3	I	
13	KI4	I	
14	KI5	I	
15	KI6	I	
16	KI7	I	Key input (Diode)
17	FL DATA	O	FL data output
18	–	–	Out of use
19	FL CLOCK	O	FL clock output
20	FL LATCH	O	FL latch output
21	DISP CLR	O	Display clear output
22	–	–	Out of use
23	KO0	O	Key output
24	KO1	O	
25	KO2	O	
26	KO3	O	
27	KO4	O	
28	–	–	Out of use
29	STANDBY	O	Standby LED/Low cut filter LED signal output
30	VOLUME LED	O	Volume LED signal output
31	+5V	–	Power supply terminal (+5V)
32	INDEX	O	DPC mode "INDEX" LED signal output
33	EQ	O	DPC mode "EQ" LED signal output
34	SURR	O	DPC mode "SURR" LED signal output
35	MUTING	O	Muting LED signal output
36	TAPE.M	O	Tape monitor LED signal output
37	D.PAS	O	Direct pass LED signal output
38	LOW BOOST	O	Low boost LED signal output
39	–	O	Function select LED signal output
40	GND	–	GND (ground)

Pin No.	Pin Name	I/O	Function
41	–	–	Out of use
42	–	–	
43	ECDCB	I	Function encoder input (B)
44	ECDCA	I	Function encoder input (A)
45	ECDBB	I	Up/Down encoder input (B)
46	ECDBA	I	Up/Down encoder input (A)
47	ECDAB	I	L/R encoder input (B)
48	ECDAA	I	L/R encoder input (A)
49	CLK	O	μ-COM clock output
50	DATA	I/O	μ-COM data input/output
51	MRQ	O	μ-COM master request signal output
52	CTS	I	Control μ-COM request signal input
53	UCOM RESET	O	Control μ-COM reset signal output
54	–	–	Out of use
55	–	–	
56	–	–	
57	S.POWER	I	Power key input
58	SIRCS	I	Sircs input
59	–	–	Out of use
60	–	–	
61	–	–	
62	–	–	
63	STOP	I	Stop signal input
64	RESET	I	Reset signal input

- **IC106 (TC9174P) LED DRIVER (GX800ES)**

Pin No.	Pin Name	I/O	Function
1	GND	–	GND
2	–	–	Not used
3	RP	O	DIRECT PASS LED drive
4	MUTE	O	MUTING LED drive
5	S. MUTE	I	Surround mute output
6	INDEX	O	INDEX LED drive
7	TONE	O	TONE LED drive
8	SURR	O	SUR LED drive
9	TAPE	O	TAPE MONITOR LED drive
10	–	O	LOW CUT LED drive
11	LOW	O	LOW BOOST LED drive
12	–	–	Not used
13	DATA	I	Serial data input
14	CLK	I	Serial clock input
15	LAT	I	Serial latch input
16	V_{DD}	–	+5.6V

- **IC150 (HD6433258B55F) MAIN CONTROLLER (GX900ES)**

Pin No.	Pin Name	I/O	Function
1	XTAL	O	20MHz main clock output
2	EXTAL	I	20MHz main clock intput
3	MD1	I	Single chip mode signal input
4	MD0	I	
5	NMI	–	+5V (+5V/GND)
6	Vcc	–	Power supply terminal +5V
7	–	–	+5V (out of use)
8	GND	–	GND (ground)
9	–	–	GND (out of use)
10	DATA IN (PLL)	I	PLL input data input
11	TAPE MONITOR	O	Tape monitor on/off signal output
12	PROTECT IN	I	Protector signal input
13	RESET (DSP, D/A)	O	Reset (DSP, D.F., D/A) signal output
14	LOW CUT FILTER	O	Low boost on/off signal output
15	–	I	GND (out of use)
16	–	I	GND (out of use)
17	DATA (DSP)	O	Serial data (DSP) output
18	–	I	GND (out of use)
19	CLK (DSP)	O	Serial clock (DSP) output
20	–	–	GND (out of use)
21	–	–	GND (out of use)
22	SRDY (DSP)	O	SRDY (DSP) signal output
23	SIAK (DSP)	I	SIAK (DSP) signal input
24	LAT (FRONT D/A)	O	Latch (front D/A) output
25	SIRQ (DSP)	O	SIRQ (DSP) signal output
26	8dB GAIN	O	Attenuator (Front L/R) signal output
27	4dB GAIN	O	Attenuator (Front L/R) signal output
28	2dB GAIN	O	Attenuator (Front L/R) signal output
29	ALL MUTE	O	All mute signal output
30	–20dB MUTE	O	–20dB mute signal output
31	Vcc	–	Power supply terminal +5V
32	–	–	GND (out of use)
33	DIRECT PASS	O	Direct pass on/off signal output
34	–	–	GND (out of use)
35	–	–	GND (out of use)
36	–	–	GND (out of use)
37	LAT (CE)	O	Latch (function, PLL, C/S volume) signal output
38	DATA	O	Data (function, PLL, C/S volume) signal output
39	CLK	O	Clock (function, PLL, C/S volume) signal output
40	GND	–	GND (out of use)

Pin No.	Pin Name	I/O	Function
41	LAT (CENT/REAR)	O	Latch (center/rear) signal output
42	OPD (A/D RESET)	O	OPD (A/D reset) signal output
43	VOL UP	O	Master volume up signal output
44	VOL DN	O	Master volume down signal output
45	STEREO	I	Stereo signal input
46	AUTO STOP	I	Tuner auto stop signal input
47	TUNER MUTE	O	Tuner mute signal output
48	FUNC MUTE	O	Function mute signal output
49	CLK	I	μ-COM interface (master clock)
50	DATA	I	μ-COM interface (master data)
51	M REQ	I	μ-COM interface (master request)
52	S REQ	O	μ-COM interface (slave request & data)
53	POW RY	O	Power relay
54	FRONT SP RY	O	Front speaker relay
55	CENTER SP RY	O	Center speaker relay
56	REAR SP RY	O	Rear speaker relay
57	LOW FIL	O	Low cut filter
58	C4966 RY	O	Speaker 2/3ch switch (C4966)
59	PRE RY	O	Pre out relay
60	S MUTE	O	Surround mute
61	–	–	GND (out of use)
62	INH	O	Video out inhibit
63	E	O	Video switch
64	RESET	I	Reset (from master μ-COM)

- **IC202 (μPD75518GF-236-3B9) MAIN CONTROLLER (GX800ES)**

Pin No.	Pin Name	I/O	Function
1	P. IN	I	POWER IN
2	A/D. REF	–	REFERENCE VOLTAGE OF A/D CONVERTER (+5V)
3	+5V	–	+5V
4	+5V	–	+5V
5	–	O	OPEN
6	T. MUT	O	TUNER MUTE
7	TONE. LAT	O	TONE latch
8	–	O	OPEN
9	LOW BOOST	O	LOW BOOST ON/OFF
10	KEY-O. C	O	KEY OUT CONTROL -C
11	KEY-O. B	O	KEY OUT CONTROL -B
12	KEY-O. A	O	KEY OUT CONTROL -A
13	T-2	O	TAPE MONITOR ON/OFF
14	KEY-I. C	O	KEY IN CONTROL -C
15	KEY-I. B	O	KEY IN CONTROL -B
16	KEY-I. A	O	KEY IN CONTROL -A
17	KEY. IN	I	KEY INPUT
18	FL. DATA	O	FL DRIVER SERIAL DATA
19	FL. CK	O	FL DRIVER SERIAL CLOCK
20	D. PASS	O	Direct pass ON/OFF
21	VR (+)	O	VOLUME UP control
22	VR (-)	O	VOLUME DOWN control
23	FL. LAT	O	FL DRIVER LATCH
24	FL. CLR	O	FL DRIVER CLEAR
25	LED CLK	O	LED clock
26	LED DATA	O	LED data
27	SURR. RY	O	SURROUND RELAY drive
28	CENTER. RY	O	CENTER RELAY drive
29	LED LAT	O	LED latch
30	VOL LED	O	VOLUME LED drive
31	VIDEO-A	O	VIDEO A SELECT
32	LOW CUT FIL	O	Low cut filter ON/OFF
33	Vss	–	GND
34	–	–	GND
35	–	–	GND
36	–	–	GND
37	PREOUT RY	O	PRE OUT RELAY drive
38	PW. RY	O	POWER RELAY drive
39	SP. RY	O	SPEAKER RELAY drive
40	S. CLK	O	SERIAL CLOCK

Pin No.	Pin Name	I/O	Function
41	S. DATA	O	SERIAL DATA
42	LAT	O	SERIAL LATCH
43	FUNC. MUT	O	FUNCTION MUTE
44	-20DB. MUT	O	-20dB MUTE
45	PROT. MUT	O	PROTECTOR MUTE (Use a things S-MUTE)
46	STEREO. IN	I	TUNER STEREO SIGNAL INPUT
47	PROT. IN	I	PROTECTOR INPUT
48	GND	–	GND
49	REMO. MA	I	REMOTE CONTROL INPUT
50	ADJ. LAT	I	AUTO MEASUREMENT LATCH
51	A. STOP	I	TUNER AUTO STOP
52	D. IN	I	IF COUNT DATA INPUT
53	STOP	I	STOP DETECT
54	Vss	–	GND
55	XT1	–	GND
56	–	–	OPEN
57	IC	–	GND
58	OSC	–	CRYSTAL OSCILLATOR 6MHz
59	OSC	–	CRYSTAL OSCILLATOR 6MHz
60	RESET	I	RESET INPUT
61	SURR CLOCK	O	Serial clock for surround IC (LV1010N, LA2785)
62	SURR DATA	O	Serial data for surround IC (LV1010N, LA2785)
63	SURR LAT	O	Serial latch for surround IC (LV1010N, LA2785)
64	INH	O	Inhidit output for VIDEO MONITOR OUT
65	LOT 1	I	FUNC. 1 Rotary encoder input
66	LOT 2	I	FUNC. 2 Rotary encoder input
67	LOT 3	I	U/D 1 Rotary encoder input
68	LOT 4	I	U/D 2 Rotary encoder input
69	LOT 5	I	L/R 1 Rotary encoder input
70	LOT 6	I	L/R 2 Rotary encoder input
71	–	I	GND
72	–	I	GND
73	AVss	–	GND
74	–	I	GND
75	–	I	GND
76	–	I	GND
77	–	I	GND
78	–	I	GND
79	–	I	GND
80	–	I	GND

- **IC301 2-channels A/D Converter (AK5369VP) (GX900ES)**

Pin No.	Pin Name	I/O	Function
1	AGND	–	Analog part. Analog ground terminal.
2	AINL	I	L-ch analog input terminal.
3	ZEROL	I	L-ch zero level input terminal, connected to AGND.
4	VA+	–	Analog part. Analog plus power supply terminal, connected to A +5V.
5	VA–	–	Analog part. Analog minus power supply terminal, connected to A –5V.
6	APD	I	Analog part. Power down terminal, the power down mode is "H".
7	ACAL	I	Analog calibration terminal. Normally, connected to DCAL terminal. Input terminal of external signal is trans ferred due to this terminal level. "H": zero level input terminal (ZEROL, ZEROR), "L": analog input terminal (AINL, AINR)
8	–	–	Out of use. (open)
9	DCAL	O	Digital calibration terminal. Offset calibration exe cuting is shown. Normally, connected to ACAL terminal. The potential rises up momentarily after power down signal is input to DPD terminal. Then, it is held "L" after a period of 4096L$\overline{R}$ (about 85 ms at fs=48 kHz) from DPD terminal rising down, this shows to finish calibration.
10	DPD	I	Digital part. When power down terminal is "H", this terminal is power down mode.
11	TST1	I	Test terminal, connected to DGND.
12	CMODE	I	Master clock choosing terminal, connected to DGND. "L": CLK=256fs (12.288 MHz @fs=48 kHz), "H": CLK=384fs (18.432 MHz @fs=48 kHz)
13	SMODE	I	Interface lock terminal, connected to DGND. Each clock terminal input/output of L/XR, BCK are set. "L": slave mode (each terminal is all input), "H": master mode (each terminal is all output)
14	LRCK	O	Input channel choosing terminal. fs clock is output. DATA, after 1 BCK from L/$\overline{R}$ edge, is output. When the power supply is down (DPD="H"), the potential is "H". (master mode)
15	BCK	O	Serial data clock terminal. At this terminal rising down, 1 bit of output data is outputed. 64fs clock signal is output. When the power supply is down (DPD="H"), the poten tial is "L". (master mode)
16	DATA	O	Serial data output terminal. The data is output 18 bit from MSB at 2's complement, and it is output "L" for more than 19 pieces of BCK input. When the power supply is down (DPD="H"), the potential is "L".
17	–	O	Frame synchronized clock terminal, out of use. (open)
18	VD2+	–	Digital part. Power supply terminal, connected to D +5V.
19	DGND	–	Digital part. Ground terminal.
20	CLK	I	Master clock input terminal, CMODE="H": 384fs, CMODE="L": 256fs.
21	OCLK	O	128fs clock output terminal. When power supply is down (DPD="H"), this terminal is "L".
22	–	–	Out of use. (open)
23	128Fs	I	128fs input terminal, this terminal is clock of analog part. Connected to OCLK terminal.
24	LGND	–	Analog part, logic ground terminal.
25	VL+	–	Analog part. Logic power supply terminal, connected to A +5V.
26	ZEROR	I	R-ch zero level input terminal, connected to AGND. Normally, R-ch offset is calibrated on this terminal input voltage is zero level.
27	AINR	I	R-ch analog input terminal.
28	VREF	O	Standard voltage output terminal, –3.68V. Input signal full scale depends on this voltage. When VREF=–3.68V, it is FS= ± 3.68V.

- **IC401 Digital Signal Processor (LC83015) (GX900ES)**

Pin No.	Pin Name	I/O	Function
1 to 6	P0 to P5	I/O	General input/output port, a pull up resister is installed.
7	ASI1	I	Audio data serial input 1. (out of use)
8	BCK1	I	Bit clock input, for ASI1 input. (64fs or 32fs are applied.)
9	FS384I	I	384fs or 512fs input. (out of use)
10	LRCK1	I	L/R channel distinction signal input. (H: L-ch, L: R-ch.) (out of use)
11	ASI2	I	Audio data serial input 2.
12	BCK2	I	Bit clock input, for ASI2 input. (64fs or 32fs are applied.)
13	VDD1	–	Power supply terminal +5V.
14 to 17	TEST1 to 4	I	Test input, connect to GND (ground).
18	Vss1	–	GND
19	TEST5	O	Test output, to be not connected.
20	$\overline{RAS}$	O	When accessing DRAM (IC402), RAS signal output.
21	$\overline{CAS}$	O	When accessing DRAM (IC402), CAS signal output.
22	$\overline{DWRT}$	O	When accessing memory (IC402), data write signal out put.
23	$\overline{DREAD}$	O	When accessing memory (IC402), data read signal output.
24	$\overline{CE/CS}$	O	Tip enable signal output to SRAM and Para-SRAM. (out of use)
25 to 28	D7 to D4	I/O	Data input/output with memory. (out of use)
29 to 32	D3 to D0	I/O	Data input/output with memory (IC402).
33	Vss2	–	GND
34 to 42	A0 to A8	O	Address output to memory (IC402).
43 to 50	A9 to A16	O	Address output to memory. (out of use)
51	VDD2	–	Power supply terminal +5V.
52	OSC1	I	Input for crystal oscillator.
53	OSC2	O	Output for crystal oscillator. (out of use)
54	VSS3	–	GND
55	FS3840	O	384fs or 512fs output.
56	FS1920	O	192fs or 256fs output.
57	FS1280	O	128fs output. (out of use)
58	FS640	O	64fs or 32fs output.
59	FS320	O	32fs or 16fs output. (out of use)
60	LRCK0	O	1fs output.
61	AOWCK	O	2fs or 1fs output.
62	ASO	O	Audio data serial output 1.
63	AOTDF1	O	Audio data serial output 2. (out of use)
64	AOTDF2	O	Audio data serial output 3.
65	SI	I	Serial data input from microcomputer (IC150).
66	SICK	I	Clock input for serial data from microcomputer (IC150).
67	$\overline{SIRQ}$	I	Request signal input into serial data input from micro computer (IC150).
68	$\overline{SIAK}$	O	Serial-input executing output to microcomputer (IC150).
69	$\overline{SRDY}$	I	Serial data-input exited input from microcomputer (IC150).
70	SO	O	Serial data output to microcomputer. (out of use)

Pin No.	Pin Name	I/O	Function
71	SOCK	I	Serial clock input for SO. (out of use)
72	$\overline{SORQ}$	I	Serial data-output request signal input. (out of use)
73	$\overline{SOAK}$	O	Serial data-output executing output. (out of use)
74	Vss4	–	GND
75	$\overline{RES}$	I	Reset signal input from microcomputer (IC150).
76	$\overline{INT}$	I	Interrupt request input. (out of use)
77	VDD3	–	Power supply terminal +5V.
78	$\overline{SELC}$	I	System clock switching (FS384I: L, Self-running oscilla tor clock: H). (Using FS384I)
79	$\overline{SACK1}$	I	FS3840 output switching (1/3 divided frequency output to FS1280: L, 1/4 divided frequency output to FS1280: H). (1/4 devided frequency to FS1280)
80	$\overline{SACK2}$	I	FS output clock switching (external input: L, self- running oscillator clock: H). (in use external input)

SECTION 3
EXPLODED VIEWS

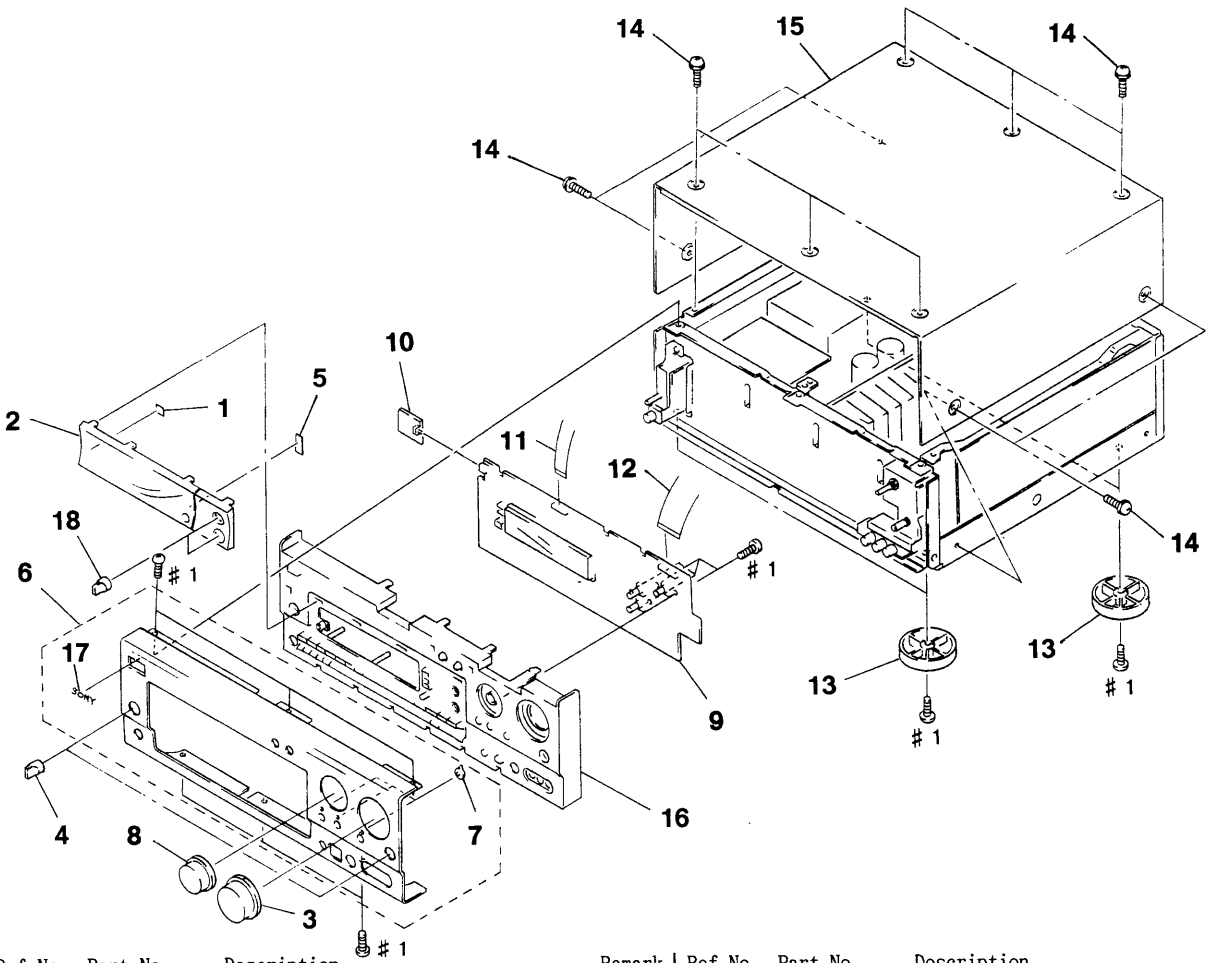
NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  AUS : Australian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

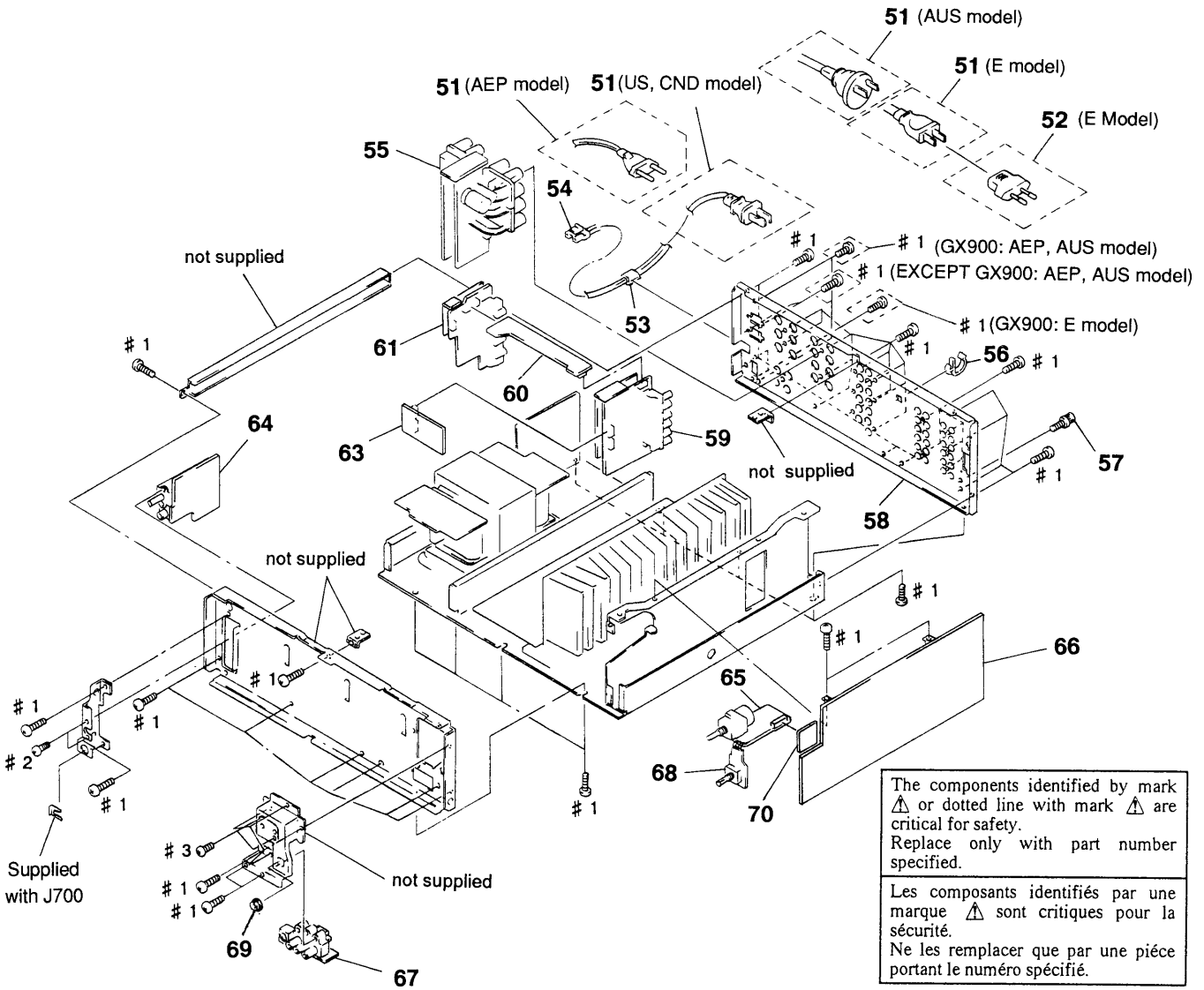
3-1. FRONT PANEL AND CABINET SECTIONS

Note:
There are two type of AEP models which are depend on countries.
AEP2: Model for Scandinavian countries, Switzerland, Spain and Portugal.
AEP1: Model for other European countries.



Ref. No.	Part No.	Description	Remark
1	4-968-469-11	ILLUMINATOR (ST)	
2	4-966-932-01	PLATE (B1), INDICATION (GX900ES:US, CND)	
2	4-966-932-11	PLATE (B1), INDICATION (GX900ES:AEP, E, AUS)	
2	4-966-932-21	PLATE (B1), INDICATION (GX800ES)	
3	X-4944-983-1	KNOB (R41) ASSY	
4	X-4945-007-1	KNOB (R12) ASSY	
5	4-967-925-11	ILLUMINATOR (DPC)	
6	4-966-944-01	PANEL (B1), FRONT (GX900ES)	
6	4-966-944-11	PANEL (B1), FRONT (GX800ES)	
7	4-938-518-01	INDICATOR (C)	
8	X-4944-984-1	KNOB (R48) ASSY	
* 9	A-4371-312-A	DISPLAY BOARD, COMPLETE (GX800ES)	
* 9	A-4371-339-A	DISPLAY BOARD, COMPLETE (GX900ES:US, CND)	
* 9	A-4371-340-A	DISPLAY BOARD, COMPLETE (GX900ES:AEP, AUS)	
* 9	A-4371-341-A	DISPLAY BOARD, COMPLETE (GX900ES:E)	
* 10	1-652-956-11	POWER SWITCH BOARD (GX900ES)	
* 10	1-652-967-11	POWER SWITCH BOARD (GX800ES)	
11	1-765-301-11	WIRE (FLAT TYPE) (15 CORE)	
12	1-765-302-11	WIRE (FLAT TYPE) (17 CORE) (GX900ES)	
12	1-765-311-11	WIRE (FLAT TYPE) (33 CORE) (GX800ES)	
13	X-4941-617-1	FOOT (58175) ASSY	
14	3-704-366-01	SCREW (CASE) (M3X8)	
15	4-966-116-01	CASE	
16	X-4944-985-1	BASE ASSY, PANEL (GX900ES)	
16	X-4944-986-1	BASE ASSY, PANEL (GX800ES)	
17	4-942-568-01	EMBLEM (NO. 5), SONY	
18	4-908-097-21	KNOB	

3-2. BACK PANEL SECTION



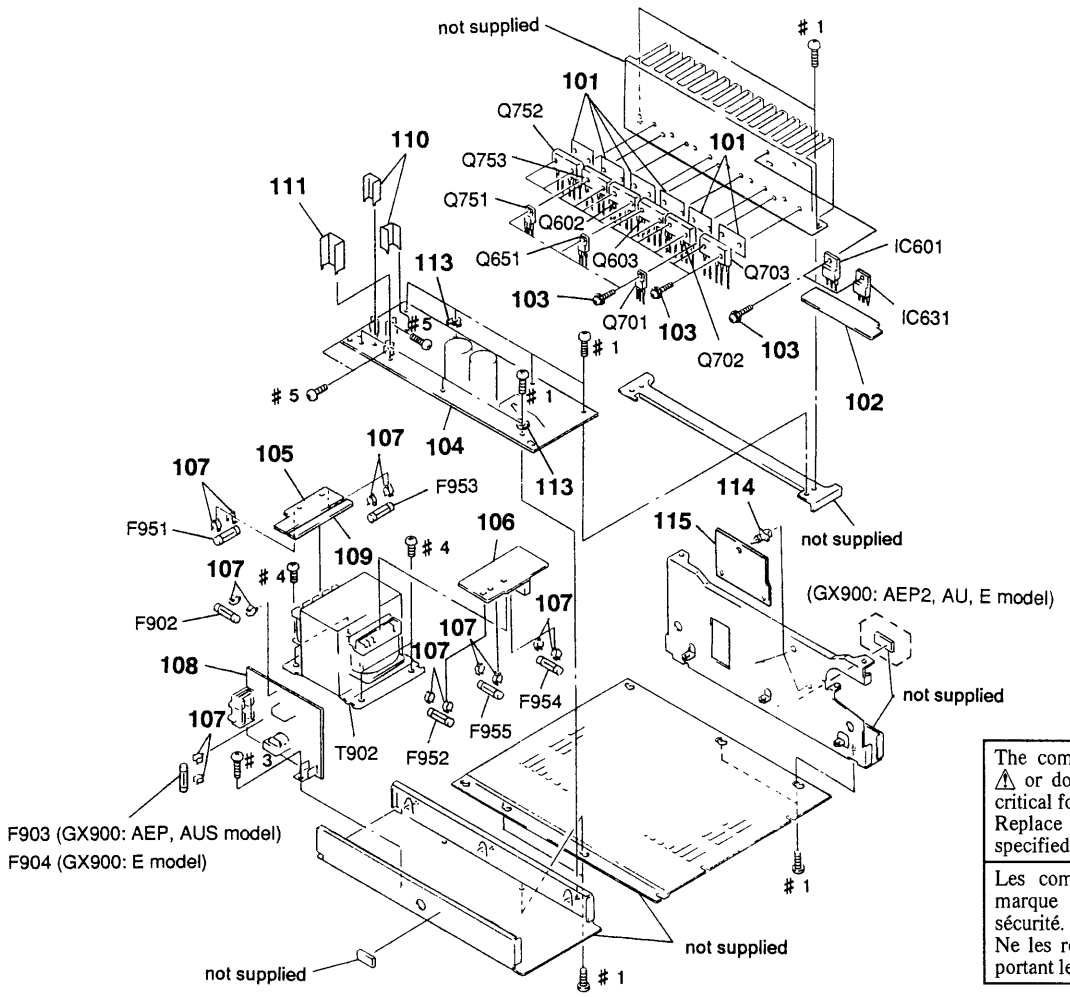
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠51	1-559-479-11	CORD, POWER (GX800ES/GX900ES:US, CND)	
⚠51	1-574-805-11	CORD, POWER (GX900ES:AEP)	
⚠51	1-590-074-11	CORD, POWER (GX900ES:E)	
⚠51	1-690-608-11	CORD, POWER (GX900ES:AUS)	
⚠52	1-569-007-11	ADAPTER, CONVERSION 2P (GX900ES:E)	
* 53	3-703-244-00	BUSHING (2104), CORD (GX900ES:AEP, E, AUS)	
53	4-916-783-01	BUSHING, CORD (GX800ES/GX900ES:US, CND)	
54	1-769-077-31	LEAD (WITH CONNECTOR) (2 CORE) (GX800ES/GX900ES:US, CND)	
54	1-769-078-31	LEAD (WITH CONNECTOR) (2 CORE) (GX900ES:AEP, AUS)	
* 55	A-4371-326-A	SP. TERMINAL BOARD, COMPLETE (GX800ES)	
* 55	A-4371-358-A	SP TERMINAL BOARD, COMPLETE (GX900ES:US, CND, AEP1, E, AUS)	
* 55	A-4371-365-A	SP TERMINAL BOARD, COMPLETE (GX900ES:AEP2)	
* 56	4-949-235-01	HOOK	
57	4-947-010-01	SCREW, FEEDER FIXED	
* 58	4-966-943-01	PANEL, BACK (GX900ES:US)	
* 58	4-966-943-11	PANEL, BACK (GX900ES:CND)	
* 58	4-966-943-21	PANEL, BACK (GX900ES:AEP1)	
* 58	4-966-943-31	PANEL, BACK (GX900ES:AEP2)	
* 58	4-966-943-41	PANEL, BACK (GX900ES:E)	
* 58	4-966-943-51	PANEL, BACK (GX900ES:AUS)	
* 58	4-966-943-61	PANEL, BACK (GX800ES:US)	

Ref. No.	Part No.	Description	Remark
* 58	4-966-943-71	PANEL, BACK (GX800ES:CND)	
* 59	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE (GX800ES)	
* 59	A-4371-356-A	AUDIO INPUT BOARD, COMPLETE (GX900ES)	
* 60	1-652-962-11	INPUT JOINT BOARD (GX900ES)	
* 60	1-652-973-11	INPUT JOINT BOARD (GX800ES)	
* 61	A-4371-325-A	VIDEO INPUT BOARD, COMPLETE (GX800ES)	
* 61	A-4371-357-A	VIDEO INPUT BOARD, COMPLETE (GX900ES)	
* 63	1-652-963-11	SURROUND JOINT BOARD (GX900ES)	
* 63	1-652-974-11	SURROUND JOINT BOARD (GX800ES)	
* 64	1-652-958-11	SPEAKER SELECTOR BOARD (GX900ES)	
* 64	1-652-969-11	SPEAKER SELECTOR BOARD (GX800ES)	
* 65	1-652-960-11	VOLUME BOARD (GX900ES)	
* 65	1-652-971-11	VOLUME BOARD (GX800ES)	
* 66	A-4371-320-A	SURROUND BOARD, COMPLETE (GX800ES)	
* 66	A-4371-351-A	SURROUND BOARD, COMPLETE (GX900ES:US, CND)	
* 66	A-4371-352-A	SURROUND BOARD, COMPLETE (GX900ES:AEP, AUS)	
* 66	A-4371-816-A	SURROUND BOARD, COMPLETE (GX900ES:E)	
* 67	1-652-959-11	VIDEO-3 BOARD (GX900ES)	
* 67	1-652-970-11	VIDEO-3 BOARD (GX800ES)	
* 68	1-652-961-11	BALANCE VOLUME BOARD (GX900ES)	
* 68	1-652-979-11	BALANCE VOLUME BOARD (GX800ES)	
69	3-575-039-00	NUT, CONTROL	
* 70	1-653-019-11	VOLUME JOINT BOARD (GX900ES)	
* 70	1-653-020-11	VOLUME JOINT BOARD (GX800ES)	

3-3. AMP BOARD SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
101	4-885-901-31	SHEET, RADIATION	
* 102	1-653-002-11	REAR AMPLIFIER (W) BOARD	
103	3-905-609-01	SCREW (TRANSISTOR)	
* 104	A-4371-322-A	MAIN AMPLIFIER BOARD, COMPLETE	(GX800ES:US)
* 104	A-4371-323-A	MAIN AMPLIFIER BOARD, COMPLETE	(GX800ES:CND)
* 104	A-4371-354-A	MAIN AMPLIFIER BOARD, COMPLETE	(GX900ES:US, AEP, E, AUS)
* 104	A-4371-355-A	MAIN AMPLIFIER BOARD, COMPLETE	(GX900ES:CND)
* 105	1-652-999-11	TRANSFORMER TERMINAL (1-2) BOARD	
* 106	1-653-000-11	TRANSFORMER TERMINAL (2) BOARD	
107	1-533-293-11	FUSE HOLDER	
* 108	A-4371-319-A	POWER SUPPLY BOARD, COMPLETE (GX800ES)	
* 108	A-4371-348-A	POWER SUPPLY BOARD, COMPLETE	(GX900ES:US, CND)
* 108	A-4371-349-A	POWER SUPPLY BOARD, COMPLETE	(GX900ES:AEP, AUS)
* 108	A-4371-350-A	POWER SUPPLY BOARD, COMPLETE (GX900ES:E)	
* 109	1-652-998-11	TRANSFORMER TERMINAL (1-1) BOARD	(US, CND, AEP, AUS)
* 110	3-309-144-21	HEAT SINK	
* 111	4-880-403-11	HEAT SINK	
* 113	4-942-204-01	PLATE, GROUND	
* 114	3-703-353-01	SUPPORT, PC BOARD	
* 115	1-653-003-11	FRONT. REAR SELECT BOARD	
⚠F902	1-532-350-00	TIME LAG FUSE (T4AL 250V)	(GX900ES:AEP, E, AUS)
⚠F902	1-532-749-11	FUSE, GLASS TUBE(8A 125V)	(GX800ES/GX900ES:US, CND)
⚠F903	1-532-350-00	TIME LAG FUSE (T4AL 250V) (GX900ES:AEP, AUS)	
⚠F904	1-532-350-00	TIME LAG FUSE (T4AL 250V) (GX900ES:E)	
⚠F951	1-532-299-00	TIME LAG FUSE (T5AL 250V)	(GX900ES:AEP, E, AUS)
⚠F951	1-576-109-11	FUSE (5.0A 125V) (GX800ES/GX900ES:US, CND)	
⚠F952	1-532-350-00	TIME LAG FUSE (T4AL 250V)	(GX900ES:AEP, E, AUS)
⚠F952	1-576-108-11	FUSE (4A 125V) (GX800ES/GX900ES:US, CND)	
⚠F953	1-532-299-00	TIME LAG FUSE (T5AL 250V)	(GX900ES:AEP, E, AUS)
⚠F953	1-576-109-11	FUSE (5A 125V) (GX800ES/GX900ES:US, CND)	
⚠F954	1-532-506-51	TIME LAG FUSE (T6.3AL 250V)	(GX900ES:AEP, E, AUS)
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A 125V)	(GX800ES/GX900ES:US, CND)
⚠F955	1-532-506-51	TIME LAG FUSE (T6.3AL 250V)	(GX900ES:AEP, E, AUS)
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A 125V)	(GX800ES/GX900ES:US, CND)
IC601	8-759-085-89	IC LM3875-S	
IC631	8-759-085-89	IC LM3875-S	
Q602	8-749-010-43	IC NE-N250	
Q603	8-749-010-42	IC NE-P250	
Q651	8-729-026-08	TRANSISTOR 2SC4495	
Q701	8-729-026-08	TRANSISTOR 2SC4495	
Q702	8-749-010-43	IC NE-N250	
Q703	8-749-010-42	IC NE-P250	
Q751	8-729-026-08	TRANSISTOR 2SC4495	
Q752	8-749-010-43	IC NE-N250	
Q753	8-749-010-42	IC NE-P250	
⚠T902	1-426-877-11	TRANSFORMER, POWER (GX800ES:US/GX900ES:US)	
⚠T902	1-426-878-11	TRANSFORMER, POWER	(GX800ES:CND/GX900ES:CND)
⚠T902	1-426-879-11	TRANSFORMER, POWER (GX900ES:E)	
⚠T902	1-426-887-11	TRANSFORMER, POWER (GX900ES:AEP, AUS)	

SECTION 4
ELECTRICAL PARTS LIST

AUDIO INPUT

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  AUS : Australian model

Note:
There are two type of AEP models which are depend on countries.
AEP2: Model for Scandinavian countries, Switzerland, Spain and Portugal.
AEP1: Model for other European countries.

Ref.No.	Part No.	Description				Remark
*	A-4371-324-A	AUDIO INPUT BOARD, COMPLETE (GX800ES)				
		**********				
*	A-4371-356-A	AUDIO INPUT BOARD, COMPLETE (GX900ES)				
		**********				
		(INCLUDING AUDIO (A) BOARD, AUDIO JOINT BOARD, AUDIO (F) BOARD)				
		< CAPACITOR >				
C501	1-162-282-31	CERAMIC	100PF	10%	50V	
C502	1-124-927-11	ELECT	4.7uF	20%	100V	
C503	1-162-282-31	CERAMIC	100PF	10%	50V	
C504	1-124-477-11	ELECT	47uF	20%	25V	
C505	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C506	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C507	1-124-907-11	ELECT	10uF	20%	50V	
C508	1-124-477-11	ELECT	47uF	20%	25V	
C509	1-124-477-11	ELECT	47uF	20%	25V	
C530	1-124-927-11	ELECT	4.7uF	20%	100V	
C531	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C533	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C540	1-124-907-11	ELECT	10uF	20%	50V	
C551	1-162-282-31	CERAMIC	100PF	10%	50V	
C552	1-124-927-11	ELECT	4.7uF	20%	100V	
C553	1-162-282-31	CERAMIC	100PF	10%	50V	
C554	1-124-477-11	ELECT	47uF	20%	25V	
C555	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C556	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C557	1-124-907-11	ELECT	10uF	20%	50V	
		< CONNECTOR >				
* CNP502	1-564-518-11	PLUG, CONNECTOR 3P				
CNS501	1-695-092-11	SOCKET, CONNECTOR 7P				
CNS503	1-695-093-11	SOCKET, CONNECTOR 9P				
CNS504	1-695-093-11	SOCKET, CONNECTOR 9P				
		< DIODE >				
D501	8-719-987-63	DIODE 1N4148M				

Ref.No.	Part No.	Description				Remark
		< IC >				
IC501	8-759-805-14	IC LC7822				
IC502	8-759-805-14	IC LC7822				
IC503	8-759-634-50	IC M5218AL				
		< JACK >				
J501	1-766-395-11	JACK, PIN 4P (CD/PHONO IN)				
J502	1-766-395-11	JACK, PIN 4P (DAT/MD IN/OUT)				
J503	1-766-395-11	JACK, PIN 4P (TAPE IN/OUT)				
J504	1-766-394-11	JACK, PIN 6P (VIDEO 1 IN/OUT, VIDEO 2 OUT)				
J505	1-766-394-11	JACK, PIN 6P (TV/LD/VIDEO 2 IN)				
		< TRANSISTOR >				
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q530	8-729-900-36	TRANSISTOR DTC124ES				
Q531	8-729-900-63	TRANSISTOR DTA124ES				
Q551	8-729-141-30	TRANSISTOR 2SC3623A-LK				
		< RESISTOR >				
R501	1-249-417-11	CARBON	1K	5%	1/4W	F
R502	1-249-441-11	CARBON	100K	5%	1/4W	
R503	1-249-441-11	CARBON	100K	5%	1/4W	
R504	1-249-416-11	CARBON	820	5%	1/4W	F
R505	1-247-897-11	CARBON	560K	5%	1/4W	
R506	1-249-437-11	CARBON	47K	5%	1/4W	
R507	1-249-441-11	CARBON	100K	5%	1/4W	
R508	1-249-409-11	CARBON	220	5%	1/4W	F
R509	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R510	1-249-429-11	CARBON	10K	5%	1/4W	
R511	1-249-417-11	CARBON	1K	5%	1/4W	F
R512	1-249-417-11	CARBON	1K	5%	1/4W	F
R514	1-249-417-11	CARBON	1K	5%	1/4W	F
R515	1-249-417-11	CARBON	1K	5%	1/4W	F
R516	1-249-417-11	CARBON	1K	5%	1/4W	F
R517	1-249-417-11	CARBON	1K	5%	1/4W	F
R519	1-249-417-11	CARBON	1K	5%	1/4W	F
R520	1-249-417-11	CARBON	1K	5%	1/4W	F
R521	1-249-417-11	CARBON	1K	5%	1/4W	F
R522	1-249-417-11	CARBON	1K	5%	1/4W	F

AUDIO INPUT | BALANCE VOLUME | DISPLAY

Ref.No.	Part No.	Description				Remark
R530	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R531	1-249-441-11	CARBON	100K	5%	1/4W	
R532	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R535	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R536	1-249-429-11	CARBON	10K	5%	1/4W	
R551	1-249-417-11	CARBON	1K	5%	1/4W	F
R552	1-249-441-11	CARBON	100K	5%	1/4W	
R553	1-249-441-11	CARBON	100K	5%	1/4W	
R554	1-249-416-11	CARBON	820	5%	1/4W	F
R555	1-247-897-11	CARBON	560K	5%	1/4W	
R556	1-249-437-11	CARBON	47K	5%	1/4W	
R557	1-249-441-11	CARBON	100K	5%	1/4W	
R558	1-249-409-11	CARBON	220	5%	1/4W	F
R559	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R560	1-249-429-11	CARBON	10K	5%	1/4W	
R561	1-249-417-11	CARBON	1K	5%	1/4W	F
R562	1-249-417-11	CARBON	1K	5%	1/4W	F
R564	1-249-417-11	CARBON	1K	5%	1/4W	F
R565	1-249-417-11	CARBON	1K	5%	1/4W	F
R566	1-249-417-11	CARBON	1K	5%	1/4W	F
R567	1-249-417-11	CARBON	1K	5%	1/4W	F
R569	1-249-417-11	CARBON	1K	5%	1/4W	F
R570	1-249-417-11	CARBON	1K	5%	1/4W	F
R571	1-249-417-11	CARBON	1K	5%	1/4W	F
R572	1-249-417-11	CARBON	1K	5%	1/4W	F
R581	1-249-441-11	CARBON	100K	5%	1/4W	
R598	1-249-437-11	CARBON	47K	5%	1/4W	
		< RELAY >				
RY501	1-515-614-11	RELAY				

****

* 1-652-961-11 BALANCE VOLUME BOARD (GX900ES)
****

* 1-652-972-11 BALANCE VOLUME BOARD (GX800ES)
****

< VARIABLE RESISTOR >

RV502 1-238-965-21 RES, VAR, CARBON 100K/100K (BALANCE)

****

* A-4371-312-A DISPLAY BOARD, COMPLETE (GX800ES)
****

< CAPACITOR >

C101	1-161-379-00	CERAMIC	0.01uF	20%	25V
C102	1-164-097-11	CERAMIC	0.022uF		50V
C103	1-164-097-11	CERAMIC	0.022uF		50V
C104	1-124-477-11	ELECT	47uF	20%	25V
C105	1-164-095-11	CERAMIC	0.01uF	10%	16V
C106	1-164-159-11	CERAMIC	0.1uF		50V
C107	1-124-907-11	ELECT	10uF	20%	50V
C108	1-162-286-31	CERAMIC	220PF	10%	50V
C109	1-124-907-11	ELECT	10uF	20%	50V
C110	1-161-379-00	CERAMIC	0.01uF	20%	25V
C111	1-162-286-31	CERAMIC	220PF	10%	50V
C150	1-161-379-00	CERAMIC	0.01uF	20%	25V
C151	1-161-379-00	CERAMIC	0.01uF	20%	25V
C152	1-161-379-00	CERAMIC	0.01uF	20%	25V
C153	1-161-379-00	CERAMIC	0.01uF	20%	25V
C154	1-161-379-00	CERAMIC	0.01uF	20%	25V
C155	1-161-379-00	CERAMIC	0.01uF	20%	25V

< CONNECTOR >

* CNJ102	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
CNS101	1-766-046-11	CONNECTOR, FFC (LIF (NON-ZIF))	33P
CNS102	1-766-028-11	CONNECTOR, FFC (LIF (NON-ZIF))	15P

< DIODE >

D101	8-719-987-63	DIODE	1N4148M
D102	8-719-987-63	DIODE	1N4148M
D103	8-719-301-49	LED	SEL2810A (LOW CUT)
D105	8-719-301-49	LED	SEL2810A (LOW BOOST)
D106	8-719-301-49	LED	SEL2810A (SUR)
D107	8-719-301-49	LED	SEL2810A (INDEX)
D108	8-719-301-49	LED	SEL2810A (EQ)
D109	8-719-301-49	LED	SEL2810A (MUTING -20dB)
D111	8-719-301-49	LED	SEL2810A (DIRECT PASS)
D112	8-719-301-49	LED	SEL2810A (MONITOR TAPE)
D121	8-719-987-63	DIODE	1N4148M
D122	8-719-987-63	DIODE	1N4148M
D123	8-719-987-63	DIODE	1N4148M
D124	8-719-987-63	DIODE	1N4148M
D125	8-719-987-63	DIODE	1N4148M
D126	8-719-987-63	DIODE	1N4148M
D127	8-719-987-63	DIODE	1N4148M
D131	8-719-987-63	DIODE	1N4148M

< FLUORESCENT INDICATOR >

FL101 1-517-304-11 INDICATOR TUBE, FLUORESCENT

< IC >

IC101	8-759-075-35	IC	TD62C950RF
IC102	8-749-923-11	IC	GP1U58XB
IC103	8-759-282-30	IC	PC74HC237N
IC104	8-759-282-06	IC	PC74HC151N
IC105	8-759-075-35	IC	TD62C950RF
IC106	8-759-202-07	IC	TC9174P

DISPLAY

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q101	8-729-900-61	TRANSISTOR	DTA114ES			
Q102	8-729-900-80	TRANSISTOR	DTC114ES			
		< RESISTOR >				
⚠R101	1-249-388-11	CARBON	3.9	5%	1/6W	F
⚠R102	1-249-388-11	CARBON	3.9	5%	1/6W	F
R103	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-430-11	CARBON	12K	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R106	1-249-410-11	CARBON	270	5%	1/4W	F
R107	1-247-807-31	CARBON	100	5%	1/4W	
R108	1-247-807-31	CARBON	100	5%	1/4W	
R111	1-249-410-11	CARBON	270	5%	1/4W	F
R112	1-249-410-11	CARBON	270	5%	1/4W	F
R113	1-249-410-11	CARBON	270	5%	1/4W	F
R114	1-249-410-11	CARBON	270	5%	1/4W	F
R115	1-249-417-11	CARBON	1K	5%	1/4W	F
R116	1-249-417-11	CARBON	1K	5%	1/4W	F
R117	1-249-417-11	CARBON	1K	5%	1/4W	F
R118	1-249-417-11	CARBON	1K	5%	1/4W	F
R119	1-249-437-11	CARBON	47K	5%	1/4W	
R120	1-249-417-11	CARBON	1K	5%	1/4W	F
R121	1-249-411-11	CARBON	330	5%	1/4W	
R122	1-249-411-11	CARBON	330	5%	1/4W	
R123	1-249-411-11	CARBON	330	5%	1/4W	
R124	1-249-411-11	CARBON	330	5%	1/4W	
R125	1-249-411-11	CARBON	330	5%	1/4W	
R126	1-249-411-11	CARBON	330	5%	1/4W	
R127	1-249-411-11	CARBON	330	5%	1/4W	
R128	1-249-411-11	CARBON	330	5%	1/4W	
R131	1-249-433-11	CARBON	22K	5%	1/4W	
R132	1-249-433-11	CARBON	22K	5%	1/4W	
R133	1-249-433-11	CARBON	22K	5%	1/4W	
R134	1-249-433-11	CARBON	22K	5%	1/4W	
R135	1-249-433-11	CARBON	22K	5%	1/4W	
R136	1-249-433-11	CARBON	22K	5%	1/4W	
R137	1-249-433-11	CARBON	22K	5%	1/4W	
R138	1-249-433-11	CARBON	22K	5%	1/4W	
R139	1-249-437-11	CARBON	47K	5%	1/4W	
R140	1-249-437-11	CARBON	47K	5%	1/4W	
R141	1-249-437-11	CARBON	47K	5%	1/4W	
R146	1-249-437-11	CARBON	47K	5%	1/4W	
R147	1-249-410-11	CARBON	270	5%	1/4W	F
R150	1-249-441-11	CARBON	100K	5%	1/4W	
R151	1-249-441-11	CARBON	100K	5%	1/4W	
R152	1-249-441-11	CARBON	100K	5%	1/4W	
R153	1-249-441-11	CARBON	100K	5%	1/4W	
R154	1-249-441-11	CARBON	100K	5%	1/4W	
R155	1-249-441-11	CARBON	100K	5%	1/4W	

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV101	1-467-809-11	ENCODER, ROTARY (DIGITAL PROCESSING CONTROL PARAMETER EQ LEVEL CHARACTER)	
RV102	1-467-809-11	ENCODER, ROTARY (DIGITAL PROCESSING CONTROL LEVEL FREQUENCY POSITION)	
RV103	1-467-808-21	ENCODER, ROTARY (FUNCTION)	
		< SWITCH >	
S102	1-554-303-21	SWITCH, TACTILE (MEMORY)	
S103	1-554-303-21	SWITCH, TACTILE (DISPLAY)	
S104	1-554-303-21	SWITCH, TACTILE (FM/AM)	
S105	1-554-303-21	SWITCH, TACTILE (LEVEL)	
S106	1-554-303-21	SWITCH, TACTILE (+ INDEX SELECT/TUNING)	
S107	1-554-303-21	SWITCH, TACTILE (- INDEX SELECT/TUNING)	
S108	1-554-303-21	SWITCH, TACTILE (+ PRESET TUNING)	
S109	1-554-303-21	SWITCH, TACTILE (- PRESET TUNING)	
S110	1-554-303-21	SWITCH, TACTILE (FUNCTION MODE)	
S111	1-554-303-21	SWITCH, TACTILE (TAPE)	
S112	1-554-303-21	SWITCH, TACTILE (FM MODE)	
S113	1-554-303-21	SWITCH, TACTILE (MUTING)	
S114	1-554-303-21	SWITCH, TACTILE (DIRECT PASS)	
S115	1-554-303-21	SWITCH, TACTILE (MODE SOUND FIELD)	
S116	1-554-303-21	SWITCH, TACTILE (3)	
S117	1-554-303-21	SWITCH, TACTILE (6)	
S118	1-554-303-21	SWITCH, TACTILE (9)	
S119	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S120	1-554-303-21	SWITCH, TACTILE (SOUND FIELD ON/OFF)	
S121	1-554-303-21	SWITCH, TACTILE (LOW BOOST)	
S123	1-554-303-21	SWITCH, TACTILE (2)	
S124	1-554-303-21	SWITCH, TACTILE (5)	
S125	1-554-303-21	SWITCH, TACTILE (8)	
S126	1-554-303-21	SWITCH, TACTILE (0)	
S130	1-554-303-21	SWITCH, TACTILE (DPS MODE)	
S131	1-554-303-21	SWITCH, TACTILE (1)	
S132	1-554-303-21	SWITCH, TACTILE (4)	
S133	1-554-303-21	SWITCH, TACTILE (7)	
S134	1-554-303-21	SWITCH, TACTILE (DIRECT)	
S144	1-554-303-21	SWITCH, TACTILE (CENTER MODE)	

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

DISPLAY

Ref. No.	Part No.	Description			Remark
*	A-4371-339-A	DISPLAY BOARD, COMPLETE (GX900ES:US, CND)			
		**********			
*	A-4371-340-A	DISPLAY BOARD, COMPLETE(GX900ES:AEP, AUS)			
		**********			
*	A-4371-341-A	DISPLAY BOARD, COMPLETE (GX900ES:E)			
		**********			
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-126-233-11	ELECT	22uF	20%	50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-124-916-11	ELECT	22uF	20%	63V
C105	1-124-916-11	ELECT	22uF	20%	63V
C106	1-124-902-00	ELECT	0.47uF	20%	50V
C107	1-161-379-00	CERAMIC	0.01uF	20%	25V
C108	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-104-905-11	CAP, DOUBLE LAYERS	0.22F		
C111	1-164-159-11	CERAMIC	0.1uF		50V
C112	1-164-159-11	CERAMIC	0.1uF		50V
C113	1-124-910-11	ELECT	47uF	20%	50V
C114	1-164-097-11	CERAMIC	0.022uF		50V
C115	1-164-097-11	CERAMIC	0.022uF		50V
C116	1-161-379-00	CERAMIC	0.01uF	20%	25V
C117	1-161-379-00	CERAMIC	0.01uF	20%	25V
C118	1-161-379-00	CERAMIC	0.01uF	20%	25V
C119	1-161-379-00	CERAMIC	0.01uF	20%	25V
C120	1-161-379-00	CERAMIC	0.01uF	20%	25V
C121	1-161-379-00	CERAMIC	0.01uF	20%	25V
C125	1-124-907-11	ELECT	10uF	20%	50V
		< CERAMIC FILTER >			
CF101	1-567-928-11	VIBLATOR, CERAMIC (20MHz)			
		< CONNECTOR >			
CNS101	1-766-030-11	CONNECTOR, FFC(LIF(NON-ZIF))17P			
CNS102	1-766-028-11	CONNECTOR, FFC(LIF(NON-ZIF))15P			
* CNS103	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P			
		< DIODE >			
D101	8-719-987-63	DIODE	1N4148M		
D102	8-719-987-63	DIODE	1N4148M		
D104	8-719-301-49	LED	SEL2810A (SUR)		
D105	8-719-301-49	LED	SEL2810A (EQ)		
D106	8-719-301-49	LED	SEL2810A (INDEX)		
D107	8-719-301-49	LED	SEL2810A (DIRECT PASS)		
D108	8-719-301-49	LED	SEL2810A (MONITOR TAPE)		
D109	8-719-987-63	DIODE	1N4148M		
D110	8-719-301-49	LED	SEL2810A (US, CND)		

Ref. No.	Part No.	Description			Remark
D110	8-719-313-43	LED	SEL2210S-TH10 (AEP, E, AUS)		
D111	8-719-301-49	LED	SEL2810A (LOW BOOST)		
D112	8-719-301-49	LED	SEL2810A (-20dB MUTING)		
D114	8-719-987-63	DIODE	1N4148M (AEP, AUS)		
D116	8-719-987-63	DIODE	1N4148M (AEP, AUS)		
D117	8-719-987-63	DIODE	1N4148M (AEP, E, AUS)		
D118	8-719-987-63	DIODE	1N4148M		
		< FLUORESCENT INDICATOR >			
FL101	1-517-304-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-759-075-35	IC	TD62C950RF		
IC102	8-759-075-35	IC	TD62C950RF		
IC103	8-759-275-30	IC	HD6433248B54F		
IC104	8-749-923-11	IC	GP1U58XB		
		< COIL >			
L101	1-410-324-11	INDUCTOR	4.7uH		
		< TRANSISTOR >			
Q101	8-729-900-61	TRANSISTOR	DTA114ES		
Q102	8-729-900-80	TRANSISTOR	DTC114ES		
Q103	8-729-900-63	TRANSISTOR	DTA124ES		
Q104	8-729-900-89	TRANSISTOR	DTC144ES		
		< RESISTOR >			
R101	1-249-429-11	CARBON	10K	5%	1/4W
R102	1-249-437-11	CARBON	47K	5%	1/4W
R103	1-249-417-11	CARBON	1K	5%	1/4W F
R104	1-249-417-11	CARBON	1K	5%	1/4W F
R105	1-249-417-11	CARBON	1K	5%	1/4W F
R106	1-249-417-11	CARBON	1K	5%	1/4W F
R107	1-249-417-11	CARBON	1K	5%	1/4W F
R108	1-249-425-11	CARBON	4.7K	5%	1/4W F
R109	1-249-429-11	CARBON	10K	5%	1/4W
R110	1-247-807-31	CARBON	100	5%	1/4W
R111	1-249-425-11	CARBON	4.7K	5%	1/4W F
R112	1-249-425-11	CARBON	4.7K	5%	1/4W F
R113	1-249-417-11	CARBON	1K	5%	1/4W F
R114	1-249-417-11	CARBON	1K	5%	1/4W F
R115	1-249-417-11	CARBON	1K	5%	1/4W F
R116	1-249-417-11	CARBON	1K	5%	1/4W F
R117	1-247-895-00	CARBON	470K	5%	1/4W
R118	1-249-411-11	CARBON	330	5%	1/4W
R119	1-249-411-11	CARBON	330	5%	1/4W
R120	1-249-411-11	CARBON	330	5%	1/4W
R121	1-249-411-11	CARBON	330	5%	1/4W
R122	1-249-411-11	CARBON	330	5%	1/4W

Ref.No.	Part No.	Description				Remark
R123	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R124	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R125	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R126	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R127	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R129	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R130	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R131	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R133	1-249-411-11	CARBON	330	5%	1/4W	
R134	1-249-411-11	CARBON	330	5%	1/4W	
R135	1-249-411-11	CARBON	330	5%	1/4W	
R136	1-249-411-11	CARBON	330	5%	1/4W	
R137	1-249-411-11	CARBON	330	5%	1/4W	
R138	1-249-411-11	CARBON	330	5%	1/4W	
R139	1-247-807-31	CARBON	100	5%	1/4W	
⚠R140	1-249-388-11	CARBON	3.9	5%	1/6W	F
⚠R141	1-249-388-11	CARBON	3.9	5%	1/6W	F
R142	1-249-429-11	CARBON	10K	5%	1/4W	
R143	1-249-441-11	CARBON	100K	5%	1/4W	
R144	1-249-441-11	CARBON	100K	5%	1/4W	
R145	1-249-441-11	CARBON	100K	5%	1/4W	
R146	1-249-441-11	CARBON	100K	5%	1/4W	
R147	1-249-441-11	CARBON	100K	5%	1/4W	
R148	1-249-441-11	CARBON	100K	5%	1/4W	

< VARIABLE RESISTOR >

RV101	1-467-809-11	ENCODER, ROTARY (DIGITAL PROCESSING CONTROL LEVEL FREQUENCY POSITION)
RV102	1-467-809-11	ENCODER, ROTARY (DIGITAL PROCESSING CONTROL PARAMETER EQ LEVEL CHARACTER)
RV103	1-467-808-21	ENCODER, ROTARY (FUNCTION)

< SWITCH >

S101	1-554-303-21	SWITCH, TACTILE (FUNCTION MODE)
S102	1-554-303-21	SWITCH, TACTILE (SHIFT)
S103	1-554-303-21	SWITCH, TACTILE (1)
S104	1-554-303-21	SWITCH, TACTILE (4)
S105	1-554-303-21	SWITCH, TACTILE (7)
S106	1-554-303-21	SWITCH, TACTILE (DISPLAY)
S107	1-554-303-21	SWITCH, TACTILE (DIRECT)
S108	1-554-303-21	SWITCH, TACTILE (2)
S109	1-554-303-21	SWITCH, TACTILE (5)
S110	1-554-303-21	SWITCH, TACTILE (8)
S111	1-554-303-21	SWITCH, TACTILE (DIRECT PASS)
S112	1-554-303-21	SWITCH, TACTILE (FM/AM)
S113	1-554-303-21	SWITCH, TACTILE (3)
S114	1-554-303-21	SWITCH, TACTILE (6)
S115	1-554-303-21	SWITCH, TACTILE (9)
S116	1-554-303-21	SWITCH, TACTILE (TAPE)
S117	1-554-303-21	SWITCH, TACTILE (- INDEX SELECT/TUNING)
S118	1-554-303-21	SWITCH, TACTILE (DPC MODE)
S119	1-554-303-21	SWITCH, TACTILE (+ INDEX SELECT/TUNING)
S120	1-554-303-21	SWITCH, TACTILE (0)
S121	1-554-303-21	SWITCH, TACTILE (MUTING)
S122	1-554-303-21	SWITCH, TACTILE (MEMORY)
S123	1-554-303-21	SWITCH, TACTILE (CENTER MODE)
S124	1-554-303-21	SWITCH, TACTILE (- PRESET TUNING)
S125	1-554-303-21	SWITCH, TACTILE (BAND EQUALIZER)
S126	1-554-303-21	SWITCH, TACTILE (SOUND FIELD ON/OFF)
S127	1-554-303-21	SWITCH, TACTILE (LEVEL)
S128	1-554-303-21	SWITCH, TACTILE (MODE SOUND FIELD)
S129	1-554-303-21	SWITCH, TACTILE (+ RESET TUNING)
S130	1-554-303-21	SWITCH, TACTILE (SLOPE - EQUALIZER)
S131	1-554-303-21	SWITCH, TACTILE (LOW BOOST)
S132	1-554-303-21	SWITCH, TACTILE (FM MODE)

****

* 1-653-003-11 FRONT.REAR SELECT BOARD

****

< CAPACITOR >

C510	1-164-159-11	CERAMIC	0.1uF		50V
C742	1-136-159-00	FILM	0.033uF	5%	50V
C743	1-136-159-00	FILM	0.033uF	5%	50V
C792	1-136-159-00	FILM	0.033uF	5%	50V
C793	1-136-159-00	FILM	0.033uF	5%	50V

< CONNECTOR >

CNP610	1-691-768-11	PLUG (MICRO CONNECTOR) 6P
CNP611	1-691-769-21	PLUG (MICRO CONNECTOR) 7P
CNP612	1-691-765-11	PLUG (MICRO CONNECTOR) 3P
CNP614	1-691-769-11	PLUG (MICRO CONNECTOR) 7P

< IC >

IC741	8-759-634-51	IC	M5218AP
IC742	8-759-634-51	IC	M5218AP
IC743	8-759-051-63	IC	TC9215P (GX900ES)
IC744	8-759-051-63	IC	TC9215P
IC745	8-759-051-63	IC	TC9215P
IC746	8-759-051-63	IC	TC9215P

< TRANSISTOR >

Q507	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q508	8-729-141-30	TRANSISTOR	2SC3623A-LK (GX900ES)
Q509	8-729-141-30	TRANSISTOR	2SC3623A-LK

< RESISTOR >

R540	1-249-413-11	CARBON	470	5%	1/4W	F
R541	1-249-413-11	CARBON	470	5%	1/4W	F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

FRONT.REAR SELECT | INPUT JOINT | MAIN AMPLIFIER

Ref.No.	Part No.	Description				Remark
R542	1-249-413-11	CARBON	470	5%	1/4W	F
R590	1-249-426-11	CARBON	5.6K	5%	1/4W	
R591	1-249-426-11	CARBON	5.6K	5%	1/4W	
R592	1-249-426-11	CARBON	5.6K	5%	1/4W	(GX900ES)
R701	1-249-417-11	CARBON	1K	5%	1/4W	F
R740	1-249-437-11	CARBON	47K	5%	1/4W	
R741	1-247-854-11	CARBON	9.1K	5%	1/4W	
R742	1-249-417-11	CARBON	1K	5%	1/4W	F
R743	1-249-436-11	CARBON	39K	5%	1/4W	
R744	1-247-876-11	CARBON	75K	5%	1/4W	
R745	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R751	1-249-417-11	CARBON	1K	5%	1/4W	F
R791	1-247-854-11	CARBON	9.1K	5%	1/4W	
R792	1-249-417-11	CARBON	1K	5%	1/4W	F
R793	1-249-436-11	CARBON	39K	5%	1/4W	
R794	1-247-876-11	CARBON	75K	5%	1/4W	
R795	1-249-421-11	CARBON	2.2K	5%	1/4W	F

****

* 1-652-962-11 INPUT JOINT BOARD (GX900ES)
****

* 1-652-973-11 INPUT JOINT BOARD (GX800ES)
****

< CONNECTOR >

* CNP232 1-564-519-11 PLUG, CONNECTOR 4P
CNP521 1-695-087-11 PIN, CONNECTOR (PC BOARD) 7P
CNS241 1-695-094-11 SOCKET, CONNECTOR 11P

****

* A-4371-322-A MAIN AMPLIFIER BOARD, COMPLETE
****
(GX800ES:US)

* A-4371-323-A MAIN AMPLIFIER BOARD, COMPLETE
****
(GX800ES:CND)

* A-4371-354-A MAIN AMPLIFIER BOARD, COMPLETE
****
(GX900ES:US, AEP, E, AUS)

* A-4371-355-A MAIN AMPLIFIER BOARD, COMPLETE
****
(GX900ES:CND)

* 3-309-144-21 HEAT SINK
* 4-880-403-11 HEAT SINK
* 4-942-204-01 PLATE, GROUND
4-969-002-01 SPACER (DIA. 29)
7-682-548-04 SCREW +BVTT 3X8 (S)

Ref.No.	Part No.	Description			Remark
		< CAPACITOR >			
C191	1-124-925-11	ELECT	2.2uF	20%	100V
C651	1-124-927-11	ELECT	4.7uF	20%	100V
C652	1-164-079-11	CERAMIC	330PF	10%	50V
C653	1-102-989-00	CERAMIC	68PF	5%	500V
C654	1-161-959-00	CERAMIC	22PF	5%	500V
C656	1-124-443-00	ELECT	100uF	20%	10V
C657	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C658	1-124-910-11	ELECT	47uF	20%	50V
C659	1-161-959-00	CERAMIC	22PF	10%	500V
C660	1-161-959-00	CERAMIC	22PF	10%	500V
C665	1-161-959-00	CERAMIC	22PF	10%	500V
C666	1-161-959-00	CERAMIC	22PF	10%	500V
C701	1-124-927-11	ELECT	4.7uF	20%	100V
C702	1-164-079-11	CERAMIC	330PF	10%	50V
C703	1-102-989-00	CERAMIC	68PF	5%	500V
C704	1-161-959-00	CERAMIC	22PF	5%	500V
C706	1-124-443-00	ELECT	100uF	20%	10V
C707	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C708	1-124-910-11	ELECT	47uF	20%	50V
C709	1-161-959-00	CERAMIC	22PF	10%	500V
C710	1-161-959-00	CERAMIC	22PF	10%	500V
C713	1-136-157-00	FILM	0.022uF	5%	50V
C715	1-161-959-00	CERAMIC	22PF	10%	500V
C716	1-161-959-00	CERAMIC	22PF	10%	500V
C721	1-136-169-00	FILM	0.22uF	5%	50V
C722	1-124-471-00	ELECT	1000uF	20%	6.3V
C751	1-124-927-11	ELECT	4.7uF	20%	100V
C752	1-164-079-11	CERAMIC	330PF	10%	50V
C753	1-102-989-00	CERAMIC	68PF	5%	500V
C754	1-161-959-00	CERAMIC	22PF	5%	500V
C756	1-124-443-00	ELECT	100uF	20%	10V
C757	1-164-040-11	CERAMIC	4PF	0.25PF	50V
C758	1-124-910-11	ELECT	47uF	20%	50V
C759	1-161-959-00	CERAMIC	22PF	10%	500V
C760	1-161-959-00	CERAMIC	22PF	10%	500V
C763	1-136-157-00	FILM	0.022uF	5%	50V
C765	1-161-959-00	CERAMIC	22PF	10%	500V
C766	1-161-959-00	CERAMIC	22PF	10%	500V
C780	1-124-916-11	ELECT	22uF	20%	63V
C781	1-124-916-11	ELECT	22uF	20%	63V
C782	1-124-916-11	ELECT	22uF	20%	63V
C783	1-124-916-11	ELECT	22uF	20%	63V
C784	1-124-916-11	ELECT	22uF	20%	63V
C785	1-124-916-11	ELECT	22uF	20%	63V
C971	1-109-901-11	ELECT	5600uF	20%	63V
C972	1-109-901-11	ELECT	5600uF	20%	63V
C973	1-164-097-11	CERAMIC	0.022uF		50V
C974	1-164-097-11	CERAMIC	0.022uF		50V
C975	1-124-910-11	ELECT	47uF	20%	50V

Ref.No.	Part No.	Description				Remark
C976	1-124-910-11	ELECT	47uF	20%	50V	
C977	1-124-898-11	ELECT	4700uF	20%	16V	
C978	1-124-477-11	ELECT	47uF	20%	25V	
C979	1-124-477-11	ELECT	47uF	20%	25V	
C980	1-124-477-11	ELECT	47uF	20%	25V	
C981	1-124-907-11	ELECT	10uF	20%	50V	
C982	1-124-907-11	ELECT	10uF	20%	50V	
C983	1-109-901-11	ELECT	5600uF	20%	63V	
C984	1-109-901-11	ELECT	5600uF	20%	63V	
C985	1-109-901-11	ELECT	5600uF	20%	63V	
C986	1-109-901-11	ELECT	5600uF	20%	63V	
C990	1-106-220-00	MYLAR	0.1uF	5%	100V	
C991	1-106-220-00	MYLAR	0.1uF	5%	100V	
C992	1-106-220-00	MYLAR	0.1uF	5%	100V	
C993	1-106-220-00	MYLAR	0.1uF	5%	100V	
C994	1-106-220-00	MYLAR	0.1uF	5%	100V	
C995	1-106-220-00	MYLAR	0.1uF	5%	100V	
		< CONNECTOR >				
CNP602	1-691-766-21	PLUG (MICRO CONNECTOR) 4P				
CNP603	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
CNP701	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
* CNP702	1-564-915-11	PIN, CONNECTOR 7P				
CNP706	1-691-765-21	PLUG (MICRO CONNECTOR) 3P				
CNP910	1-691-768-11	PLUG (MICRO CONNECTOR) 6P				
* CNP951	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
CNP953	1-691-765-31	PLUG (MICRO CONNECTOR) 3P				
CNP954	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P				
CNP955	1-691-765-41	PLUG (MICRO CONNECTOR) 3P				
CNS110	1-764-920-11	CONNECTOR, FFC(LIF(NON-ZIF))15P				
		< DIODE >				
D191	8-719-987-63	DIODE	1N4148M			
D652	8-719-815-85	DIODE	1S1585			
D653	8-719-815-85	DIODE	1S1585			
D680	8-719-987-63	DIODE	1N4148M			
D681	8-719-987-63	DIODE	1N4148M			
D682	8-719-987-63	DIODE	1N4148M			
D683	8-719-987-63	DIODE	1N4148M			
D684	8-719-987-63	DIODE	1N4148M			
D685	8-719-987-63	DIODE	1N4148M			
D703	8-719-815-85	DIODE	1S1585			
D704	8-719-815-85	DIODE	1S1585			
D705	8-719-987-63	DIODE	1N4148M			
D706	8-719-987-63	DIODE	1N4148M			
D753	8-719-815-85	DIODE	1S1585			
D754	8-719-815-85	DIODE	1S1585			
D780	8-719-024-99	DIODE	11ES2-NTA2B			
D781	8-719-024-99	DIODE	11ES2-NTA2B			
D782	8-719-024-99	DIODE	11ES2-NTA2B			
D783	8-719-024-99	DIODE	11ES2-NTA2B			
D784	8-719-024-99	DIODE	11ES2-NTA2B			
D785	8-719-024-99	DIODE	11ES2-NTA2B			
D971	8-719-312-09	DIODE	RBA-402			
D972	8-719-312-09	DIODE	RBA-402			
D973	8-719-312-09	DIODE	RBA-402			
D974	8-719-002-76	DIODE	UZL-36H			
D980	8-719-312-09	DIODE	RBA-402			
		< IC >				
IC651	8-749-010-16	IC	STK350-130A			
IC701	8-749-010-16	IC	STK350-130A			
IC751	8-749-010-16	IC	STK350-130A			
IC971	8-759-263-43	IC	TA78M12S			
IC972	8-759-604-45	IC	M5F79M12			
IC973	8-759-604-35	IC	M5F78M05L			
		< COIL >				
L701	1-420-872-00	COIL, AIR-CORE				
L751	1-420-872-00	COIL, AIR-CORE				
		< TRANSISTOR >				
Q191	8-729-900-61	TRANSISTOR	DTA114ES			
Q602	8-749-010-43	IC NE-N250				
Q603	8-749-010-42	IC NE-P250				
Q651	8-729-026-08	TRANSISTOR	2SC4495			
Q661	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q662	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q701	8-729-026-08	TRANSISTOR	2SC4495			
Q702	8-749-010-43	IC NE-N250				
Q703	8-749-010-42	IC NE-P250				
Q707	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q708	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q719	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q721	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q722	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q723	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q757	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q758	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q751	8-729-026-08	TRANSISTOR	2SC4495			
Q752	8-749-010-43	IC NE-N250				
Q753	8-749-010-42	IC NE-P250				
Q971	8-729-140-96	TRANSISTOR	2SD774-34			
		< RESISTOR >				
R191	1-249-429-11	CARBON	10K	5%	1/4W	
R192	1-249-441-11	CARBON	100K	5%	1/4W	
R193	1-249-433-11	CARBON	22K	5%	1/4W	

MAIN AMPLIFIER

Ref. No.	Part No.	Description				Remark
R194	1-249-433-11	CARBON	22K	5%	1/4W	
R617	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R618	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R619	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R620	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R622	1-249-431-11	CARBON	15K	5%	1/4W	
R623	1-249-431-11	CARBON	15K	5%	1/4W	
R652	1-249-438-11	CARBON	56K	5%	1/4W	
R653	1-249-413-11	CARBON	470	5%	1/4W	F
R655	1-249-412-11	CARBON	390	5%	1/4W	F
R656	1-249-438-11	CARBON	56K	5%	1/4W	
R657	1-247-830-11	CARBON	910	5%	1/4W	
R658	1-249-411-11	CARBON	330	5%	1/4W	
⚠R659	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R660	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R661	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R662	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R663	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W				
⚠R664	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W				
R665	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R666	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R678	1-249-433-11	CARBON	22K	5%	1/4W	
R680	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R681	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R682	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R702	1-249-438-11	CARBON	56K	5%	1/4W	
R703	1-249-413-11	CARBON	470	5%	1/4W	F
R705	1-249-412-11	CARBON	390	5%	1/4W	F
R706	1-249-438-11	CARBON	56K	5%	1/4W	
R707	1-247-830-11	CARBON	910	5%	1/4W	
R708	1-249-411-11	CARBON	330	5%	1/4W	
⚠R709	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R710	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R711	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R712	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R713	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W				
⚠R714	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W				
R715	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R716	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R718	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R719	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R720	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R721	1-260-072-11	CARBON	4.7	5%	1/2W	
R722	1-249-431-11	CARBON	15K	5%	1/4W	
R723	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R724	1-249-393-11	CARBON	10	5%	1/4W	F
			(GX800ES/GX900ES:CND)			
R724	1-260-076-11	CARBON	10	5%	1/2W	
			(GX800ES/GX900ES:US, GX900ES:AEP, E, AUS)			

Ref. No.	Part No.	Description				Remark
R725	1-249-417-11	CARBON	1K	5%	1/4W	F
R726	1-249-429-11	CARBON	10K	5%	1/4W	
R727	1-249-439-11	CARBON	68K	5%	1/4W	
R728	1-249-436-11	CARBON	39K	5%	1/4W	
R729	1-249-434-11	CARBON	27K	5%	1/4W	
R730	1-249-433-11	CARBON	22K	5%	1/4W	
R732	1-249-421-11	CARBON	2.2K	5%	1/4W	F
⚠R735	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R736	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R737	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R738	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R739	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R740	1-249-401-11	CARBON	47	5%	1/4W	F
⚠R747	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R748	1-249-414-11	CARBON	560	5%	1/4W	F
R752	1-249-438-11	CARBON	56K	5%	1/4W	
R753	1-249-413-11	CARBON	470	5%	1/4W	F
R755	1-249-412-11	CARBON	390	5%	1/4W	F
R756	1-249-438-11	CARBON	56K	5%	1/4W	
R757	1-247-830-11	CARBON	910	5%	1/4W	
R758	1-249-411-11	CARBON	330	5%	1/4W	
⚠R759	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R760	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R761	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R762	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R763	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W				
⚠R764	1-239-912-11	ENCAPSULATED COMPONENT 0.22 2W				
R765	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R766	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R767	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R768	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R769	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R770	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R771	1-260-072-11	CARBON	4.7	5%	1/2W	
R772	1-249-431-11	CARBON	15K	5%	1/4W	
R773	1-249-431-11	CARBON	15K	5%	1/4W	
⚠R774	1-249-393-11	CARBON	10	5%	1/4W	F
					(GX800ES/GX900ES:CND)	
R774	1-260-076-11	CARBON	10	5%	1/2W	
			(GX800ES/GX900ES:US, GX900ES:AEP, E, AUS)			
⚠R971	1-215-911-11	METAL	100	5%	3W	F
⚠R972	1-215-911-11	METAL	100	5%	3W	F
⚠R973	1-215-911-11	METAL	100	5%	3W	F
⚠R975	1-249-409-11	CARBON	220	5%	1/4W	F
R976	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< RELAY >				
RY701	1-515-741-21	RELAY				

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

POWER SUPPLY | POWER SWITCH

Ref. No.	Part No.	Description			Remark
*	A-4371-319-A	POWER SUPPLY BOARD, COMPLET (GX800ES)			
		**********			
*	A-4371-348-A	POWER SUPPLY BOARD, COMPLET			
		**********			
					(GX900ES:US, CND)
*	A-4371-349-A	POWER SUPPLY BOARD, COMPLET			
		**********			
					(GX900ES:AEP, AUS)
*	A-4371-350-A	POWER SUPPLY BOARD, COMPLET (GX900ES:E)			
		**********			
	1-533-293-11	FUSE HOLDER			
		< BASE POST >			
* BP903	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P			
		< CAPACITOR >			
C950	1-124-557-11	ELECT	1000uF	20%	25V
C951	1-164-097-11	CERAMIC	0.022uF		50V
C952	1-164-097-11	CERAMIC	0.022uF		50V
C953	1-164-073-11	CERAMIC	100PF	10%	50V
C954	1-124-477-11	ELECT	47uF	20%	25V
C955	1-124-477-11	ELECT	47uF	20%	25V
C959	1-124-464-11	ELECT	0.22uF	20%	50V
C960	1-124-903-11	ELECT	1uF	20%	50V
C961	1-161-494-00	CERAMIC	0.022uF		25V
C962	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR 2P			
* CNP902	1-565-792-11	PIN, CONNECTOR 2P			
* CNP903	1-564-508-11	PLUG, CONNECTOR 5P (E)			
CNP903	1-568-106-11	PIN, CONNECTOR 4P (E)			
CNP904	1-691-771-11	PLUG (MICRO CONNECTOR) 9P			
CNP905	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P (AEP, AUS)			
CNS901	1-540-060-11	OUTLET, AC (POLAR) (US, CND, E)			
		< DIODE >			
D951	8-719-987-63	DIODE	1N4148M		
D952	8-719-987-63	DIODE	1N4148M		
D953	8-719-987-63	DIODE	1N4148M		
D954	8-719-024-99	DIODE	11ES2-NTA2B		
D955	8-719-024-99	DIODE	11ES2-NTA2B		
D956	8-719-024-99	DIODE	11ES2-NTA2B		
D957	8-719-024-99	DIODE	11ES2-NTA2B		
D958	8-719-933-41	DIODE	HZS6C3L		
D959	8-719-985-53	DIODE	HZS4ALL		
D961	8-719-933-41	DIODE	HZS6C3L		

Ref. No.	Part No.	Description			Remark
		< FUSE >			
⚠F902	1-532-350-00	FUSE (T6.3AL 250V) (GX900ES:AEP, E, AUS)			
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A 125V)			
					(GX800ES/GX900ES:US, CND)
⚠F903	1-532-350-00	FUSE (T4AL 250V) (GX900ES:AEP, AUS)			
⚠F904	1-532-350-00	FUSE (T4AL 250V) (GX900ES:E)			
		< TRANSISTOR >			
Q952	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q953	8-729-209-15	TRANSISTOR	2SD2012		
Q954	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q955	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q956	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q958	8-729-119-79	TRANSISTOR	2SC2785-FEK		
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W
					(GX800ES/GX900ES:US, CND)
R951	1-249-396-11	CARBON	18	5%	1/4W F
R952	1-249-417-11	CARBON	1K	5%	1/4W F
R954	1-249-433-11	CARBON	22K	5%	1/4W
R955	1-249-437-11	CARBON	47K	5%	1/4W
R956	1-249-425-11	CARBON	4.7K	5%	1/4W F
R957	1-249-429-11	CARBON	10K	5%	1/4W
R958	1-249-417-11	CARBON	1K	5%	1/4W F
R959	1-249-429-11	CARBON	10K	5%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
R962	1-249-426-11	CARBON	5.6K	5%	1/4W
R963	1-249-417-11	CARBON	1K	5%	1/4W F
R964	1-249-426-11	CARBON	5.6K	5%	1/4W
		< RELAY >			
⚠RY901	1-515-701-11	RELAY (GX800ES/GX900ES:US, CND)			
⚠RY901	1-515-701-21	RELAY (GX900ES:AEP, E, AUS)			
		< TRANSFORMER >			
⚠T901	1-450-358-11	TRANSFORMER, POWER (GX900ES:AEP, E, AUS)			
⚠T901	1-450-361-11	TRANSFORMER, POWER			
					(GX800ES/GX900ES:US, CND)
		< SWITCH >			
⚠VS901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (GX900ES:E)			
**********					
*	1-652-967-11	POWER SWITCH BOARD (GX800ES)			
		**********			
		< CONNECTOR >			
* CNP102	1-565-295-11	PLUG, CONNECTOR 4P			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

POWER SWITCH | REAR AMPLIFIER (W) | SP TERMINAL

Ref.No.	Part No.	Description				Remark
		< SWITCH >				
S101	1-554-303-21	SWITCH, TACTILE (POWER ON/STANDBY)				
**********						
*	1-652-956-11	POWER SWITCH BOARD (GX900ES)				
		**********				
		< CONNECTOR >				
* CNP103	1-565-295-11	PLUG, CONNECTOR 4P				
		< SWITCH >				
S136	1-554-303-21	SWITCH, TACTILE (POWER ON/STANDBY)				
**********						
*	1-653-002-11	REAR AMPLIFIER (W) BOARD				
		**********				
		< CAPACITOR >				
C600	1-124-916-11	ELECT	22uF	20%	63V	
C601	1-124-907-11	ELECT	10uF	20%	50V	
C602	1-164-073-11	CERAMIC	100PF	10%	50V	
C603	1-164-073-11	CERAMIC	100PF	10%	50V	
C604	1-124-443-00	ELECT	100uF	20%	10V	
C606	1-164-159-11	CERAMIC	0.1uF		50V	
C620	1-124-916-11	ELECT	22uF	20%	63V	
C621	1-124-907-11	ELECT	10uF	20%	50V	
C622	1-164-073-11	CERAMIC	100PF	10%	50V	
C623	1-164-073-11	CERAMIC	100PF	10%	50V	
C624	1-124-443-00	ELECT	100uF	20%	10V	
		< CONNECTOR >				
CNP613	1-564-510-11	PLUG (MICRO CONNECTOR) 6P				
CNP615	1-691-765-41	PLUG (MICRO CONNECTOR) 3P				
CNP616	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
		< IC >				
IC601	8-759-085-89	IC LM3875-S				
IC631	8-759-085-89	IC LM3875-S				
		< RESISTOR >				
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-441-11	CARBON	100K	5%	1/4W	
R603	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R604	1-249-441-11	CARBON	100K	5%	1/4W	
R607	1-249-431-11	CARBON	15K	5%	1/4W	
R608	1-249-431-11	CARBON	15K	5%	1/4W	
R631	1-249-409-11	CARBON	220	5%	1/4W	F
R632	1-249-441-11	CARBON	100K	5%	1/4W	
R633	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R634	1-249-441-11	CARBON	100K	5%	1/4W	
**********						
*	A-4371-326-A	SP TERMINAL BOARD, COMPLETE (GX800ES)				
		**********				
*	A-4371-358-A	SP TERMINAL BOARD, COMPLETE				
		**********				
		(GX900ES:US, CND, AEP1, E, AUS)				
*	A-4371-365-A	SP TERMINAL BOARD, COMPLETE				
		**********				
		(GX900ES:AEP2)				
		(INCLUDING SPEAKER (F) BOARD, SPEAKER JOINT BOARD, SPEAKER (C) BOARD)				
	1-533-293-11	FUSE HOLDER				
		< CAPACITOR >				
C605	1-136-157-00	FILM	0.022uF	5%	50V	
C625	1-136-157-00	FILM	0.022uF	5%	50V	
C663	1-136-157-00	FILM	0.022uF	5%	50V	
C741	1-124-927-11	ELECT	4.7uF	20%	100V	
C963	1-126-413-11	ELECT	3300uF	20%	35V	
C965	1-126-413-11	ELECT	3300uF	20%	35V	
C996	1-164-097-11	CERAMIC	0.022uF		50V	
C997	1-164-097-11	CERAMIC	0.022uF		50V	
		< CONNECTOR >				
CNP651	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
CNP652	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P				
CNP653	1-564-510-11	PLUG (MICRO CONNECTOR) 6P				
CNP654	1-691-766-21	PLUG (MICRO CONNECTOR) 4P				
CNP655	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
* CNP705	1-564-674-11	PIN, CONNECTOR 8P				
* CNP952	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
		< DIODE >				
D601	8-719-987-63	DIODE 1N4148M				
D641	8-719-987-63	DIODE 1N4148M				
D642	8-719-987-63	DIODE 1N4148M				
D645	8-719-987-63	DIODE 1N4148M				
D970	8-719-312-09	DIODE RBA-402				
		< JACK >				
J601	1-766-397-11	JACK, PIN 4P (SURROUND OUT)				
		< COIL >				
L601	1-420-872-00	COIL, AIR-CORE				
L621	1-420-872-00	COIL, AIR-CORE				
L651	1-420-872-00	COIL, AIR-CORE				

SP TERMINAL | SPEAKER SELECTOR | SURROUND

Ref.No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q614	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q615	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q643	8-729-119-79	TRANSISTOR	2SC2785-FEK			
		< RESISTOR >				
⚠R605	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R606	1-249-393-11	CARBON	10	5%	1/4W	F
R621	1-260-072-11	CARBON	4.7	5%	1/2W	
⚠R624	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R635	1-249-389-11	CARBON	4.7	5%	1/4W	F
⚠R636	1-249-393-11	CARBON	10	5%	1/4W	F
R643	1-249-438-11	CARBON	56K	5%	1/4W	
R644	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R645	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R646	1-249-438-11	CARBON	56K	5%	1/4W	
R647	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R648	1-249-435-11	CARBON	33K	5%	1/4W	
R649	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R650	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R691	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R692	1-249-414-11	CARBON	560	5%	1/4W	F
⚠R693	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R694	1-249-417-11	CARBON	1K	5%	1/4W	F
R749	1-249-437-11	CARBON	47K	5%	1/4W	
		< RELAY >				
RY641	1-515-765-11	RELAY				
RY643	1-515-741-21	RELAY				
RY644	1-515-614-11	RELAY				
		< SWITCH >				
S721	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECT)				
S722	1-692-196-11	SWITCH, SLIDE (POWER SWAP)				
		< TERMINAL >				
TM601	1-537-754-11	TERMINAL BOARD(CENTER/REAR SPEAKERS)(6P) (GX800ES/GX900ES:US, CND, GX900ES:AEP1, E, AUS)				
TM601	1-537-755-11	TERMINAL BOARD(CENTER/REAR SPEAKERS)(6P) (GX900ES:AEP2)				
* TM701	1-537-699-11	TERMINAL BOARD (FRONT SPEAKERS)(SP) (GX800ES/GX900ES:US, CND, GX900ES:AEP1, E, AUS)				
TM701	1-537-766-11	TERMINAL BOARD (FRONT SPEAKERS)(SP) (GX900ES:AEP2)				

****

Ref.No.	Part No.	Description				Remark
*	1-652-958-11	SPEAKER SELECTOR BOARD (GX900ES)				
		**********				
*	1-652-969-11	SPEAKER SELECTOR BOARD (GX800ES)				
		**********				
		< CONNECTOR >				
* CNP703	1-564-242-00	PIN, CONNECTOR 5P				
* CNP704	1-564-674-11	PIN, CONNECTOR 8P				
		< JACK >				
J700	1-750-162-61	JACK (LARGE TYPE)(HEADPHONES)				
		< RESISTOR >				
⚠R746	1-216-431-11	METAL OXIDE	560	5%	1W	F
⚠R796	1-216-431-11	METAL OXIDE	560	5%	1W	F
		< SWITCH >				
S701	1-572-911-11	SWITCH, ROTARY SLIDE (SPEAKERS)				

****

*	A-4371-320-A	SURROUND BOARD, COMPLETE (GX800ES)			
		**********			
		< CAPACITOR >			
C201	1-161-379-00	CERAMIC	0.01uF	20%	25V
C202	1-124-477-11	ELECT	47uF	20%	25V
C203	1-161-379-00	CERAMIC	0.01uF	20%	25V
C204	1-124-903-11	ELECT	1uF	20%	50V
C206	1-104-905-11	CAP, DOUBLE LAYERS 0.22F			5.5V
C207	1-161-379-00	CERAMIC	0.01uF	20%	25V
C208	1-124-925-11	ELECT	2.2uF	20%	100V
C209	1-161-379-00	CERAMIC	0.01uF	20%	25V
C210	1-161-379-00	CERAMIC	0.01uF	20%	25V
C302	1-124-120-11	ELECT	220uF	20%	25V
C303	1-136-159-00	FILM	0.033uF	5%	50V
C304	1-130-473-00	MYLAR	0.0015uF	5%	50V
C305	1-136-159-00	FILM	0.033uF	5%	50V
C306	1-124-903-11	ELECT	1uF	20%	50V
C307	1-124-907-11	ELECT	10uF	20%	50V
C308	1-124-907-11	ELECT	10uF	20%	50V
C309	1-162-286-31	CERAMIC	220PF	10%	50V
C310	1-124-927-11	ELECT	4.7uF	20%	100V
C311	1-124-925-11	ELECT	2.2uF	20%	100V
C312	1-161-379-00	CERAMIC	0.01uF	20%	25V
C315	1-136-159-00	FILM	0.033uF	5%	50V
C316	1-124-907-11	ELECT	10uF	20%	50V
C317	1-124-120-11	ELECT	220uF	20%	25V
C318	1-130-469-00	MYLAR	680PF	5%	50V
C322	1-124-927-11	ELECT	4.7uF	20%	100V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

SURROUND

Ref.No.	Part No.	Description			Remark
C323	1-136-173-00	FILM	0.47uF	5%	50V
C324	1-124-910-11	ELECT	47uF	20%	50V
C325	1-136-165-00	FILM	0.1uF	5%	50V
C326	1-136-165-00	FILM	0.1uF	5%	50V
C327	1-124-902-00	ELECT	0.47uF	20%	50V
C328	1-124-927-11	ELECT	4.7uF	20%	100V
C329	1-124-902-00	ELECT	0.47uF	20%	50V
C330	1-124-927-11	ELECT	4.7uF	20%	100V
C331	1-124-250-00	ELECT	0.15uF	20%	50V
C332	1-126-962-11	ELECT	3.3uF	20%	50V
C333	1-124-250-00	ELECT	0.15uF	20%	50V
C334	1-136-157-00	FILM	0.022uF	5%	50V
C335	1-136-161-00	FILM	0.047uF	5%	50V
C336	1-124-120-11	ELECT	220uF	20%	25V
C337	1-124-907-11	ELECT	10uF	20%	50V
C338	1-124-907-11	ELECT	10uF	20%	50V
C339	1-124-907-11	ELECT	10uF	20%	50V
C340	1-124-907-11	ELECT	10uF	20%	50V
C341	1-124-120-11	ELECT	220uF	20%	25V
C342	1-126-962-11	ELECT	3.3uF	20%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V
C344	1-136-165-00	FILM	0.1uF	5%	50V
C345	1-136-165-00	FILM	0.1uF	5%	50V
C346	1-124-902-00	ELECT	0.47uF	20%	50V
C347	1-124-927-11	ELECT	4.7uF	20%	100V
C348	1-124-902-00	ELECT	0.47uF	20%	50V
C349	1-124-927-11	ELECT	4.7uF	20%	100V
C350	1-124-250-00	ELECT	0.15uF	20%	50V
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-00	ELECT	0.15uF	20%	50V
C353	1-164-159-11	CERAMIC	0.1uF		50V
C354	1-164-159-11	CERAMIC	0.1uF		50V
C355	1-164-159-11	CERAMIC	0.1uF		50V
C356	1-164-159-11	CERAMIC	0.1uF		50V
C358	1-161-379-00	CERAMIC	0.01uF	20%	25V
C359	1-124-927-11	ELECT	4.7uF	20%	100V
C360	1-124-927-11	ELECT	4.7uF	20%	100V
C404	1-136-171-00	FILM	0.33uF	5%	50V
C405	1-136-159-00	FILM	0.033uF	5%	50V
C406	1-124-927-11	ELECT	4.7uF	20%	100V
C407	1-164-056-11	CERAMIC	27PF	5%	50V
C408	1-124-477-11	ELECT	47uF	20%	25V
C409	1-164-159-11	CERAMIC	0.1uF		50V
C410	1-124-477-11	ELECT	47uF	20%	25V
C411	1-136-154-00	FILM	0.012uF	5%	50V
C412	1-136-163-00	FILM	0.068uF	5%	50V
C413	1-130-476-00	MYLAR	0.0027uF	5%	50V
C414	1-124-907-11	ELECT	10uF	20%	50V
C415	1-136-157-00	FILM	0.022uF	5%	50V
C416	1-124-927-11	ELECT	4.7uF	20%	100V

Ref.No.	Part No.	Description			Remark
C417	1-164-159-11	CERAMIC	0.1uF		50V
C418	1-164-097-11	CERAMIC	0.022uF		50V
C454	1-136-171-00	FILM	0.33uF	5%	50V
C455	1-136-159-00	FILM	0.033uF	5%	50V
C456	1-124-927-11	ELECT	4.7uF	20%	100V
C457	1-164-056-11	CERAMIC	27PF	5%	50V
C458	1-124-477-11	ELECT	47uF	20%	25V
C459	1-164-159-11	CERAMIC	0.1uF		50V
C460	1-124-477-11	ELECT	47uF	20%	25V
C461	1-136-154-00	FILM	0.012uF	5%	50V
C462	1-136-163-00	FILM	0.068uF	5%	50V
C463	1-130-476-00	MYLAR	0.0027uF	5%	50V
C464	1-124-907-11	ELECT	10uF	20%	50V
C465	1-136-157-00	FILM	0.022uF	5%	50V
C821	1-124-120-11	ELECT	220uF	20%	25V
C822	1-124-477-11	ELECT	47uF	20%	25V
		< CERAMIC FILTER >			
CF201	1-567-776-41	VIBRATOR, CERAMIC (6MHz)			
		< CONNECTOR >			
CNP201	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP202	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNS210	1-764-938-11	CONNECTOR, FFC(LIF(NON-ZIF))33P			
* CNS560	1-565-486-11	CONNECTOR, BOARD TO BOARD 10P			
		< DIODE >			
D202	8-719-987-63	DIODE 1N4148M			
D204	8-719-987-63	DIODE 1N4148M			
D205	8-719-987-63	DIODE 1N4148M			
D303	8-719-987-63	DIODE 1N4148M			
D542	8-719-987-63	DIODE 1N4148M			
D817	8-719-001-30	DIODE UZL-9H3			
		< FRONTEND >			
FE201	1-239-727-21	ENCAPSULATED COMPONENT (FCC)			
		< IC >			
IC201	8-759-820-62	IC LB1639			
IC202	8-759-275-32	IC uPD75518GF-236-3B9			
IC300	8-759-168-98	IC LV1010N			
IC301	8-759-248-74	IC LA2785			
IC302	8-759-634-51	IC M5218AP			
IC401	8-759-072-32	IC TC9184P			
IC402	8-759-634-51	IC M5218AP			
		< COIL >			
L201	1-410-521-11	INDUCTOR 100uH			
L301	1-410-521-11	INDUCTOR 100uH			

Ref.No.	Part No.	Description				Remark
L302	1-410-521-11	INDUCTOR	100uH			
		< TRANSISTOR >				
Q201	8-729-900-63	TRANSISTOR	DTA124ES			
Q202	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q210	8-729-900-63	TRANSISTOR	DTA124ES			
Q211	8-729-900-63	TRANSISTOR	DTA124ES			
Q212	8-729-900-63	TRANSISTOR	DTA124ES			
Q213	8-729-900-63	TRANSISTOR	DTA124ES			
Q301	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q302	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q303	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q305	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q306	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q307	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q308	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q310	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q401	8-729-202-67	TRANSISTOR	2SK246-GR3			
Q402	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q451	8-729-202-67	TRANSISTOR	2SK246-GR3			
Q452	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q808	8-729-180-92	TRANSISTOR	2SD809-K			
		< RESISTOR >				
R201	1-249-437-11	CARBON	47K	5%	1/4W	
R202	1-249-437-11	CARBON	47K	5%	1/4W	
R203	1-247-807-31	CARBON	100	5%	1/4W	
R204	1-249-429-11	CARBON	10K	5%	1/4W	
R205	1-249-429-11	CARBON	10K	5%	1/4W	
R206	1-249-429-11	CARBON	10K	5%	1/4W	
R207	1-249-429-11	CARBON	10K	5%	1/4W	
R208	1-249-429-11	CARBON	10K	5%	1/4W	
R209	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R210	1-249-437-11	CARBON	47K	5%	1/4W	
R211	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R212	1-249-437-11	CARBON	47K	5%	1/4W	
R213	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R214	1-249-433-11	CARBON	22K	5%	1/4W	
R215	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R216	1-249-429-11	CARBON	10K	5%	1/4W	
R217	1-249-429-11	CARBON	10K	5%	1/4W	
R218	1-249-429-11	CARBON	10K	5%	1/4W	
R219	1-249-429-11	CARBON	10K	5%	1/4W	
R220	1-249-429-11	CARBON	10K	5%	1/4W	
R221	1-249-429-11	CARBON	10K	5%	1/4W	
R222	1-249-429-11	CARBON	10K	5%	1/4W	
R230	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R231	1-249-433-11	CARBON	22K	5%	1/4W	
R232	1-249-433-11	CARBON	22K	5%	1/4W	
R233	1-249-433-11	CARBON	22K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R234	1-249-417-11	CARBON	1K	5%	1/4W	F
R235	1-249-417-11	CARBON	1K	5%	1/4W	F
R244	1-249-437-11	CARBON	47K	5%	1/4W	
R245	1-249-437-11	CARBON	47K	5%	1/4W	
R247	1-249-437-11	CARBON	47K	5%	1/4W	
R300	1-247-903-00	CARBON	1M	5%	1/4W	
R301	1-249-429-11	CARBON	10K	5%	1/4W	
R302	1-249-431-11	CARBON	15K	5%	1/4W	
R303	1-249-417-11	CARBON	1K	5%	1/4W	F
R304	1-249-417-11	CARBON	1K	5%	1/4W	F
R306	1-249-433-11	CARBON	22K	5%	1/4W	
R307	1-249-436-11	CARBON	39K	5%	1/4W	
R308	1-247-807-31	CARBON	100	5%	1/4W	
R309	1-247-807-31	CARBON	100	5%	1/4W	
R340	1-249-413-11	CARBON	470	5%	1/4W	F
R350	1-249-413-11	CARBON	470	5%	1/4W	F
R353	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R354	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R355	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R356	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R357	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-441-11	CARBON	100K	5%	1/4W	
R359	1-249-429-11	CARBON	10K	5%	1/4W	
R360	1-249-429-11	CARBON	10K	5%	1/4W	
R361	1-249-433-11	CARBON	22K	5%	1/4W	
R362	1-249-433-11	CARBON	22K	5%	1/4W	
R398	1-249-413-11	CARBON	470	5%	1/4W	F
R399	1-249-417-11	CARBON	1K	5%	1/4W	F
R401	1-247-903-00	CARBON	1M	5%	1/4W	
R402	1-249-436-11	CARBON	39K	5%	1/4W	
R404	1-249-441-11	CARBON	100K	5%	1/4W	
R405	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R406	1-247-883-00	CARBON	150K	5%	1/4W	
R407	1-249-412-11	CARBON	390	5%	1/4W	F
R408	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R409	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R410	1-249-440-11	CARBON	82K	5%	1/4W	
R411	1-247-895-00	CARBON	470K	5%	1/4W	
R412	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R413	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R414	1-247-897-11	CARBON	560K	5%	1/4W	
R415	1-249-436-11	CARBON	39K	5%	1/4W	
R416	1-249-434-11	CARBON	27K	5%	1/4W	
R417	1-249-426-11	CARBON	5.6K	5%	1/4W	
R418	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R420	1-247-903-00	CARBON	1M	5%	1/4W	
R421	1-249-417-11	CARBON	1K	5%	1/4W	F
R426	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R452	1-249-436-11	CARBON	39K	5%	1/4W	
R454	1-249-441-11	CARBON	100K	5%	1/4W	

SURROUND

Ref.No.	Part No.	Description				Remark
R455	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R456	1-247-883-00	CARBON	150K	5%	1/4W	
R457	1-249-412-11	CARBON	390	5%	1/4W	F
R458	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R459	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R460	1-249-440-11	CARBON	82K	5%	1/4W	
R461	1-247-895-00	CARBON	470K	5%	1/4W	
R462	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R463	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R464	1-247-897-11	CARBON	560K	5%	1/4W	
R465	1-249-436-11	CARBON	39K	5%	1/4W	
R466	1-249-434-11	CARBON	27K	5%	1/4W	
R467	1-249-426-11	CARBON	5.6K	5%	1/4W	
R468	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R470	1-247-903-00	CARBON	1M	5%	1/4W	
R476	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R599	1-249-410-11	CARBON	270	5%	1/4W	F
R822	1-247-811-31	CARBON	150	5%	1/4W	
		< RELAY >				
RY301	1-515-614-11	RELAY				
		< TERMINAL >				
TM201	1-537-769-11	TERMINAL BOARD (ANTENNA)				
		< VIBRATOR >				
X301	1-579-952-21	VIBRATOR, CERAMIC (8MHz)				
**********						
*	A-4371-351-A	SURROUND BOARD, COMPLETE(GX900ES:US, CND)				
		**********				
*	A-4371-352-A	SURROUND BOARD, COMPLETE				
		********** (GX900ES:AEP, AUS)				
*	A-4371-816-A	SURROUND BOARD, COMPLETE (GX900ES:E)				
		**********				
		< CAPACITOR >				
C151	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C152	1-164-159-11	CERAMIC	0.1uF		50V	
C301	1-124-477-11	ELECT	47uF	20%	25V	
C302	1-164-159-11	CERAMIC	0.1uF		50V	
C303	1-164-159-11	CERAMIC	0.1uF		50V	
C304	1-124-477-11	ELECT	47uF	20%	25V	
C305	1-136-153-00	FILM	0.01uF	5%	50V	
C306	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C307	1-124-907-11	ELECT	10uF	20%	50V	
C309	1-126-233-11	ELECT	22uF	20%	50V	

Ref.No.	Part No.	Description			Remark
C310	1-126-233-11	ELECT	22uF	20%	50V
C311	1-164-097-11	CERAMIC	0.022uF		50V
C312	1-164-159-11	CERAMIC	0.1uF		50V
C313	1-164-068-11	CERAMIC	82PF	5%	50V
C315	1-130-479-00	MYLAR	0.0047uF	5%	50V
C318	1-164-057-11	CERAMIC	30PF	5%	50V
C319	1-164-057-11	CERAMIC	30PF	5%	50V
C320	1-130-472-00	MYLAR	0.0012uF	5%	50V
C321	1-162-215-31	CERAMIC	47PF	5%	50V
C322	1-126-233-11	ELECT	22uF	20%	50V
C323	1-164-159-11	CERAMIC	0.1uF		50V
C324	1-124-907-11	ELECT	10uF	20%	50V
C325	1-164-159-11	CERAMIC	0.1uF		50V
C326	1-124-477-11	ELECT	47uF	20%	25V
C327	1-126-233-11	ELECT	22uF	20%	50V
C328	1-164-159-11	CERAMIC	0.1uF		50V
C337	1-136-165-00	FILM	0.1uF	5%	50V
C340	1-130-489-00	MYLAR	0.033uF	5%	50V
C341	1-136-171-00	FILM	0.33uF	5%	50V
C342	1-124-927-11	ELECT	4.7uF	20%	100V
C343	1-164-159-11	CERAMIC	0.1uF		50V
C344	1-164-159-11	CERAMIC	0.1uF		50V
C345	1-164-159-11	CERAMIC	0.1uF		50V
C351	1-126-233-11	ELECT	22uF	20%	50V
C352	1-164-159-11	CERAMIC	0.1uF		50V
C353	1-161-379-00	CERAMIC	0.01uF	20%	25V
C354	1-136-153-00	FILM	0.01uF	5%	50V
C355	1-164-159-11	CERAMIC	0.1uF		50V
C356	1-124-477-11	ELECT	47uF	20%	25V
C357	1-124-907-11	ELECT	10uF	20%	50V
C359	1-126-233-11	ELECT	22uF	20%	50V
C363	1-164-068-11	CERAMIC	82PF	5%	50V
C365	1-130-479-00	MYLAR	0.0047uF	5%	50V
C368	1-164-057-11	CERAMIC	30PF	5%	50V
C369	1-164-057-11	CERAMIC	30PF	5%	50V
C370	1-130-472-00	MYLAR	0.0012uF	5%	50V
C371	1-162-215-31	CERAMIC	47PF	5%	50V
C372	1-126-233-11	ELECT	22uF	20%	50V
C373	1-164-159-11	CERAMIC	0.1uF		50V
C374	1-124-907-11	ELECT	10uF	20%	50V
C375	1-164-159-11	CERAMIC	0.1uF		50V
C376	1-124-477-11	ELECT	47uF	20%	25V
C377	1-126-233-11	ELECT	22uF	20%	50V
C378	1-164-159-11	CERAMIC	0.1uF		50V
C390	1-130-489-00	MYLAR	0.033uF	5%	50V
C391	1-136-171-00	FILM	0.33uF	5%	50V
C393	1-164-159-11	CERAMIC	0.1uF		50V
C394	1-164-159-11	CERAMIC	0.1uF		50V
C395	1-164-159-11	CERAMIC	0.1uF		50V
C401	1-162-294-31	CERAMIC	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C402	1-124-477-11	ELECT	47uF	20%	25V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-164-159-11	CERAMIC	0.1uF		50V
C405	1-164-159-11	CERAMIC	0.1uF		50V
C406	1-126-176-11	ELECT	220uF	20%	10V
C407	1-164-159-11	CERAMIC	0.1uF		50V
C408	1-162-282-31	CERAMIC	100PF	10%	50V
C409	1-164-159-11	CERAMIC	0.1uF		50V
C410	1-126-176-11	ELECT	220uF	20%	10V
C411	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-164-159-11	CERAMIC	0.1uF		50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C414	1-124-478-11	ELECT	100uF	20%	25V
C415	1-124-478-11	ELECT	100uF	20%	25V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C417	1-124-478-11	ELECT	100uF	20%	25V
C418	1-164-159-11	CERAMIC	0.1uF		50V
C419	1-162-207-31	CERAMIC	22PF	5%	50V
C420	1-162-207-31	CERAMIC	22PF	5%	50V
C421	1-124-907-11	ELECT	10uF	20%	50V
C425	1-164-159-11	CERAMIC	0.1uF		50V
C427	1-164-159-11	CERAMIC	0.1uF		50V
C430	1-164-068-11	CERAMIC	82PF	5%	50V
C431	1-164-057-11	CERAMIC	30PF	5%	50V
C432	1-164-057-11	CERAMIC	30PF	5%	50V
C433	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-164-159-11	CERAMIC	0.1uF		50V
C435	1-130-479-00	MYLAR	0.0047uF	5%	50V
C436	1-130-472-00	MYLAR	0.0012uF	5%	50V
C438	1-124-907-11	ELECT	10uF	20%	50V
C439	1-124-907-11	ELECT	10uF	20%	50V
C440	1-124-907-11	ELECT	10uF	20%	50V
C450	1-126-176-11	ELECT	220uF	20%	10V
C451	1-164-159-11	CERAMIC	0.1uF		50V
C452	1-162-282-31	CERAMIC	100PF	10%	50V
C453	1-164-159-11	CERAMIC	0.1uF		50V
C454	1-126-176-11	ELECT	220uF	20%	10V
C455	1-164-159-11	CERAMIC	0.1uF		50V
C456	1-124-478-11	ELECT	100uF	20%	25V
C457	1-164-159-11	CERAMIC	0.1uF		50V
C458	1-124-478-11	ELECT	100uF	20%	25V
C459	1-164-159-11	CERAMIC	0.1uF		50V
C460	1-124-478-11	ELECT	100uF	20%	25V
C461	1-164-159-11	CERAMIC	0.1uF		50V
C462	1-164-159-11	CERAMIC	0.1uF		50V
C472	1-124-907-11	ELECT	10uF	20%	50V
C480	1-164-068-11	CERAMIC	82PF	5%	50V
C481	1-164-057-11	CERAMIC	30PF	5%	50V
C482	1-164-057-11	CERAMIC	30PF	5%	50V
C483	1-164-159-11	CERAMIC	0.1uF		50V
C484	1-164-159-11	CERAMIC	0.1uF		50V
C485	1-130-479-00	MYLAR	0.0047uF	5%	50V
C486	1-130-472-00	MYLAR	0.0012uF	5%	50V
C488	1-124-907-11	ELECT	10uF	20%	50V
C489	1-124-907-11	ELECT	10uF	20%	50V
C490	1-124-907-11	ELECT	10uF	20%	50V
		< CERAMIC FILTER >			
CF151	1-567-928-11	VIBLATOR, CERAMIC (20MHz)			
		< CONNECTOR >			
CNP201	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP202	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNS151	1-764-922-11	CONNECTOR, FFC(LIF(NON-ZIF))17P			
* CNS560	1-565-486-11	CONNECTOR, BOARD TO BOARD 10P			
		< DIODE >			
D160	8-719-987-63	DIODE 1N4148M			
D301	8-719-987-63	DIODE 1N4148M			
		< FRONTEND >			
FE1	1-239-611-21	ENCAPSULATED COMPONENT (AEP, E, AUS)			
FE1	1-239-727-21	ENCAPSULATED COMPONENT (FCC) (US, CND)			
		< IC >			
IC150	8-759-275-31	IC HD6433258B55F			
IC151	8-759-820-62	IC LB1639			
IC301	8-759-191-20	IC AK5369VP			
IC302	8-759-634-51	IC M5218AP			
IC303	8-759-708-05	IC NJM78L05A			
IC304	8-759-700-65	IC NJM79L05A			
IC305	8-759-634-51	IC M5218AP			
IC306	8-759-634-51	IC M5218AP			
IC355	8-759-634-51	IC M5218AP			
IC401	8-759-075-34	IC LC83015			
IC402	8-759-165-17	IC MT4C4256-8A			
IC403	8-759-708-05	IC NJM78L05A			
IC404	8-752-359-50	IC CXD2564AM			
IC405	8-752-359-50	IC CXD2564AM			
IC406	8-759-708-05	IC NJM78L05A			
IC407	8-759-634-51	IC M5218AP			
IC408	8-759-634-51	IC M5218AP			
IC409	8-759-820-11	IC LC7535			
IC410	8-759-634-51	IC M5218AP			
		< COIL >			
L301	1-410-324-11	INDUCTOR 4.7uH			
L401	1-410-324-11	INDUCTOR 4.7uH			
L402	1-410-324-11	INDUCTOR 4.7uH			
L403	1-410-324-11	INDUCTOR 4.7uH			

SURROUND

Ref. No.	Part No.	Description				Remark
L404	1-410-324-11	INDUCTOR	4.7uH			
L405	1-410-324-11	INDUCTOR	4.7uH			
L406	1-410-509-11	INDUCTOR	10uH			
L407	1-410-509-11	INDUCTOR	10uH			
L408	1-410-509-11	INDUCTOR	10uH			
L409	1-410-509-11	INDUCTOR	10uH			
L410	1-410-509-11	INDUCTOR	10uH (US, CND, AEP, AUS)			
L411	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q151	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q152	8-729-900-63	TRANSISTOR	DTA124ES			
Q301	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q302	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q303	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q304	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q305	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q306	8-729-202-67	TRANSISTOR	2SK246-GR3			
Q307	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q308	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q310	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q351	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q352	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q353	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q354	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q355	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q356	8-729-202-67	TRANSISTOR	2SK246-GR3			
Q357	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q358	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q406	8-729-900-63	TRANSISTOR	DTA124ES			
Q407	8-729-900-63	TRANSISTOR	DTA124ES			
Q408	8-729-900-63	TRANSISTOR	DTA124ES			
Q409	8-729-900-63	TRANSISTOR	DTA124ES			
Q410	8-729-900-63	TRANSISTOR	DTA124ES			
		< RESISTOR >				
R151	1-249-429-11	CARBON	10K	5%	1/4W	
R152	1-249-413-11	CARBON	470	5%	1/4W	F
R153	1-249-417-11	CARBON	1K	5%	1/4W	F
R154	1-249-417-11	CARBON	1K	5%	1/4W	F
R155	1-249-417-11	CARBON	1K	5%	1/4W	F
R156	1-249-417-11	CARBON	1K	5%	1/4W	F
R157	1-249-417-11	CARBON	1K	5%	1/4W	F
R158	1-249-417-11	CARBON	1K	5%	1/4W	F
R159	1-249-417-11	CARBON	1K	5%	1/4W	F
R160	1-249-417-11	CARBON	1K	5%	1/4W	F
R161	1-249-429-11	CARBON	10K	5%	1/4W	
R162	1-249-417-11	CARBON	1K	5%	1/4W	F
R163	1-249-429-11	CARBON	10K	5%	1/4W	
R165	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R170	1-249-417-11	CARBON	1K	5%	1/4W	F
R171	1-249-417-11	CARBON	1K	5%	1/4W	F
R172	1-249-417-11	CARBON	1K	5%	1/4W	F
R173	1-249-417-11	CARBON	1K	5%	1/4W	F
R174	1-249-417-11	CARBON	1K	5%	1/4W	F
R300	1-247-903-00	CARBON	1M	5%	1/4W	
R301	1-249-435-11	CARBON	33K	5%	1/4W	
R302	1-249-401-11	CARBON	47	5%	1/4W	F
R303	1-247-807-31	CARBON	100	5%	1/4W	
R304	1-249-429-11	CARBON	10K	5%	1/4W	
R305	1-249-441-11	CARBON	100K	5%	1/4W	
R306	1-249-441-11	CARBON	100K	5%	1/4W	
R308	1-249-435-11	CARBON	33K	5%	1/4W	
R309	1-247-895-00	CARBON	470K	5%	1/4W	
R311	1-249-436-11	CARBON	39K	5%	1/4W	
R312	1-249-436-11	CARBON	39K	5%	1/4W	
R313	1-249-432-11	CARBON	18K	5%	1/4W	
R314	1-249-432-11	CARBON	18K	5%	1/4W	
R315	1-249-439-11	CARBON	68K	5%	1/4W	
R316	1-249-439-11	CARBON	68K	5%	1/4W	
R317	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R318	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R320	1-247-903-00	CARBON	1M	5%	1/4W	
R322	1-249-441-11	CARBON	100K	5%	1/4W	
R323	1-247-844-11	CARBON	3.6K	5%	1/4W	
R324	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R325	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R326	1-249-441-11	CARBON	100K	5%	1/4W	
R327	1-249-429-11	CARBON	10K	5%	1/4W	
R328	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R329	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R330	1-249-417-11	CARBON	1K	5%	1/4W	F
R331	1-249-441-11	CARBON	100K	5%	1/4W	
R332	1-247-836-11	CARBON	1.6K	5%	1/4W	
R333	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R334	1-247-887-00	CARBON	220K	5%	1/4W	
R335	1-249-413-11	CARBON	470	5%	1/4W	F
R336	1-249-413-11	CARBON	470	5%	1/4W	F
R337	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R338	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R340	1-249-417-11	CARBON	1K	5%	1/4W	F
R341	1-247-807-31	CARBON	100	5%	1/4W	
R342	1-249-412-11	CARBON	390	5%	1/4W	F
R343	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R344	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R345	1-247-883-00	CARBON	150K	5%	1/4W	
R346	1-249-441-11	CARBON	100K	5%	1/4W	
R347	1-249-417-11	CARBON	1K	5%	1/4W	F
R348	1-249-429-11	CARBON	10K	5%	1/4W	
R351	1-249-393-11	CARBON	10	5%	1/4W	F

Ref.No.	Part No.	Description				Remark
R352	1-249-401-11	CARBON	47	5%	1/4W	F
R353	1-247-807-31	CARBON	100	5%	1/4W	
R354	1-249-429-11	CARBON	10K	5%	1/4W	
R355	1-249-441-11	CARBON	100K	5%	1/4W	
R356	1-249-441-11	CARBON	100K	5%	1/4W	
R358	1-249-435-11	CARBON	33K	5%	1/4W	
R359	1-249-435-11	CARBON	33K	5%	1/4W	
R360	1-249-413-11	CARBON	470	5%	1/4W	F
R361	1-249-436-11	CARBON	39K	5%	1/4W	
R362	1-249-436-11	CARBON	39K	5%	1/4W	
R363	1-249-432-11	CARBON	18K	5%	1/4W	
R364	1-249-432-11	CARBON	18K	5%	1/4W	
R365	1-249-439-11	CARBON	68K	5%	1/4W	
R366	1-249-439-11	CARBON	68K	5%	1/4W	
R367	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R368	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R370	1-247-903-00	CARBON	1M	5%	1/4W	
R372	1-249-441-11	CARBON	100K	5%	1/4W	
R373	1-247-844-11	CARBON	3.6K	5%	1/4W	
R374	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R375	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R376	1-249-441-11	CARBON	100K	5%	1/4W	
R377	1-249-429-11	CARBON	10K	5%	1/4W	
R378	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R379	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R380	1-249-417-11	CARBON	1K	5%	1/4W	F
R381	1-249-441-11	CARBON	100K	5%	1/4W	
R382	1-247-836-11	CARBON	1.6K	5%	1/4W	
R383	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R384	1-247-887-00	CARBON	220K	5%	1/4W	
R385	1-249-413-11	CARBON	470	5%	1/4W	F
R386	1-249-413-11	CARBON	470	5%	1/4W	F
R387	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R388	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R390	1-249-417-11	CARBON	1K	5%	1/4W	F
R391	1-247-807-31	CARBON	100	5%	1/4W	
R392	1-249-401-11	CARBON	47	5%	1/4W	F
R393	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R394	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R395	1-247-883-00	CARBON	150K	5%	1/4W	
R396	1-249-441-11	CARBON	100K	5%	1/4W	
R401	1-249-413-11	CARBON	470	5%	1/4W	F
R402	1-249-413-11	CARBON	470	5%	1/4W	F
R405	1-249-409-11	CARBON	220	5%	1/4W	F
R406	1-249-417-11	CARBON	1K	5%	1/4W	F
R407	1-249-417-11	CARBON	1K	5%	1/4W	F
R408	1-249-397-11	CARBON	22	5%	1/4W	F
R409	1-247-903-00	CARBON	1M	5%	1/4W	
R410	1-249-397-11	CARBON	22	5%	1/4W	F
R411	1-249-413-11	CARBON	470	5%	1/4W	F
R413	1-249-417-11	CARBON	1K	5%	1/4W	F
R418	1-249-417-11	CARBON	1K	5%	1/4W	F
R420	1-249-436-11	CARBON	39K	5%	1/4W	
R421	1-249-436-11	CARBON	39K	5%	1/4W	
R422	1-249-432-11	CARBON	18K	5%	1/4W	
R423	1-249-432-11	CARBON	18K	5%	1/4W	
R424	1-249-439-11	CARBON	68K	5%	1/4W	
R425	1-249-439-11	CARBON	68K	5%	1/4W	
R426	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R427	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R429	1-249-441-11	CARBON	100K	5%	1/4W	
R430	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R431	1-249-433-11	CARBON	22K	5%	1/4W	
R432	1-249-441-11	CARBON	100K	5%	1/4W	
R437	1-247-903-00	CARBON	1M	5%	1/4W	
R438	1-247-903-00	CARBON	1M	5%	1/4W	
R439	1-247-903-00	CARBON	1M	5%	1/4W	
R440	1-247-903-00	CARBON	1M	5%	1/4W	
R441	1-249-433-11	CARBON	22K	5%	1/4W	
R442	1-249-433-11	CARBON	22K	5%	1/4W	
R443	1-247-903-00	CARBON	1M	5%	1/4W	
R444	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R450	1-249-397-11	CARBON	22	5%	1/4W	F
R451	1-249-397-11	CARBON	22	5%	1/4W	F
R470	1-249-436-11	CARBON	39K	5%	1/4W	
R471	1-249-436-11	CARBON	39K	5%	1/4W	
R472	1-249-432-11	CARBON	18K	5%	1/4W	
R473	1-249-432-11	CARBON	18K	5%	1/4W	
R474	1-249-439-11	CARBON	68K	5%	1/4W	
R475	1-249-439-11	CARBON	68K	5%	1/4W	
R476	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R477	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R479	1-249-441-11	CARBON	100K	5%	1/4W	
R480	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R481	1-249-433-11	CARBON	22K	5%	1/4W	
R482	1-249-441-11	CARBON	100K	5%	1/4W	

< RELAY >

RY301	1-515-614-11	RELAY

< TERMINAL >

TM1	1-537-488-11	TERMINAL BOARD (ANTENNA) (AEP, AUS)
TM1	1-537-769-11	TERMINAL BOARD (ANTENNA) (US, CND, E)

< VIBRATOR >

X402	1-567-970-11	VIBRATOR, CRYSTAL (24.576MHz)

****

SURROUND JOINT | TRANSFORMER TERMINAL (1-1) | TRANSFORMER TERMINAL (1-2) | TRANSFORMER TERMINAL (2) | VIDEO INPUT

Ref. No.	Part No.	Description			Remark
*	1-652-963-11	SURROUND JOINT BOARD (GX900ES)			
		**********			
*	1-652-974-11	SURROUND JOINT BOARD (GX800ES)			
		**********			
		< CAPACITOR >			
C545	1-124-927-11	ELECT	4.7uF	20% 100V	
C595	1-124-927-11	ELECT	4.7uF	20% 100V	
		< CONNECTOR >			
CNP503	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP504	1-695-088-11	PIN, CONNECTOR (PC BOARD) 9P			
CNS201	1-695-093-11	SOCKET, CONNECTOR 9P			
CNS202	1-695-093-11	SOCKET, CONNECTOR 9P			
		< IC >			
IC505	8-759-634-51	IC M5218AP			
		< RESISTOR >			
R545	1-249-437-11	CARBON	47K	5% 1/4W	
R546	1-249-437-11	CARBON	47K	5% 1/4W	
R595	1-249-437-11	CARBON	47K	5% 1/4W	
R596	1-249-437-11	CARBON	47K	5% 1/4W	
**********					
*	1-652-998-11	TRANSFORMER TERMINAL (1-1) BOARD			
		**********			
		(GX800ES/GX900ES:US, CND, GX900ES:AEP, AUS)			
**********					
*	1-652-999-11	TRANSFORMER TERMINAL (1-2) BOARD			
		**********			
		< CONNECTOR >			
CNP971	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP972	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
CNP973	1-564-321-00	PIN, CONNECTOR 2P			
		(GX800ES/GX900ES:US, CND, GX900ES:AEP, AUS)			
		< DIODE >			
D962	8-719-014-66	DIODE UZP-5.6B			
		< FUSE >			
⚠F951	1-532-299-00	FUSE (T5AL 250V) (GX900ES:AEP, E, AUS)			
⚠F951	1-576-109-11	FUSE (5.0A 125V) (GX800ES/GX900ES:US, CND)			
⚠F953	1-532-299-00	FUSE (T4AL 250V) (GX900ES:AEP, E, AUS)			
⚠F953	1-576-109-11	FUSE (GX800ES/GX900ES:US, CND)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-653-000-11	TRANSFORMER TERMINAL (2) BOARD			
		**********			
	1-533-293-11	FUSE HOLDER			
		< CONNECTOR >			
* CNP970	1-564-242-00	PIN, CONNECTOR 5P			
CNP974	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
		< DIODE >			
D966	8-719-987-63	DIODE 1N4148M			
D967	8-719-987-63	DIODE 1N4148M (CND)			
		< FUSE >			
⚠F952	1-532-350-00	FUSE (8A 125V) (GX900ES:AEP, E, AUS)			
⚠F952	1-576-108-11	FUSE (4A 125V) (GX800ES/GX900ES:US, CND)			
⚠F954	1-532-506-51	FUSE (GX900ES:AEP, E, AUS)			
⚠F954	1-532-749-11	FUSE, GLASS TUBE (GX800ES/GX900ES:US, CND)			
⚠F955	1-532-506-51	FUSE (GX900ES:AEP, E, AUS)			
⚠F955	1-532-749-11	FUSE, GLASS TUBE (GX800ES/GX900ES:US, CND)			
		< RESISTOR >			
⚠R980	1-249-419-11	CARBON	1.5K	5% 1/4W F	
⚠R981	1-249-419-11	CARBON	1.5K	5% 1/4W F	
R982	1-249-419-11	CARBON	1.5K	5% 1/4W F (GX800ES/GX900ES:CND)	
R983	1-249-419-11	CARBON	1.5K	5% 1/4W F (GX800ES/GX900ES:CND)	
		< RELAY >			
RY951	1-515-894-11	RELAY (GX800ES/GX900ES:US, GX900ES:AEP, E, AUS)			
RY952	1-515-918-11	RELAY (GX800ES/GX900ES:CND)			
RY953	1-515-918-11	RELAY (GX800ES/GX900ES:CND)			
**********					
*	A-4371-325-A	VIDEO INPUT BOARD, COMPLETE (GX800ES)			
		**********			
*	A-4371-357-A	VIDEO INPUT BOARD, COMPLETE (GX900ES)			
		**********			
		(INCLUDING VIDEO BOARD, VIDEO JOINT BOARD, VIDEO (S) BOARD)			
		< CAPACITOR >			
C251	1-124-472-11	ELECT	470uF	20% 10V	
C252	1-124-927-11	ELECT	4.7uF	20% 100V	
C253	1-124-472-11	ELECT	470uF	20% 10V	
C254	1-124-927-11	ELECT	4.7uF	20% 100V	
C255	1-124-472-11	ELECT	470uF	20% 10V	
C256	1-124-927-11	ELECT	4.7uF	20% 100V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

VIDEO INPUT

Ref.No.	Part No.	Description				Remark
C257	1-124-927-11	ELECT	4.7uF	20%	100V	
C259	1-124-927-11	ELECT	4.7uF	20%	100V	
C260	1-161-494-00	CERAMIC	0.022uF		25V	
C261	1-124-907-11	ELECT	10uF	20%	50V	
C262	1-136-165-00	FILM	0.1uF	5%	50V	
C263	1-161-494-00	CERAMIC	0.022uF		25V	
C264	1-161-494-00	CERAMIC	0.022uF		25V	
C265	1-124-927-11	ELECT	4.7uF	20%	100V	
C266	1-124-472-11	ELECT	470uF	20%	10V	
C267	1-136-165-00	FILM	0.1uF	5%	50V	
C268	1-124-472-11	ELECT	470uF	20%	10V	
C269	1-136-165-00	FILM	0.1uF	5%	50V	
C270	1-124-907-11	ELECT	10uF	20%	50V	
C271	1-136-165-00	FILM	0.1uF	5%	50V	
C272	1-124-472-11	ELECT	470uF	20%	10V	
C273	1-136-165-00	FILM	0.1uF	5%	50V	
C274	1-124-907-11	ELECT	10uF	20%	50V	
C275	1-136-165-00	FILM	0.1uF	5%	50V	
C276	1-124-907-11	ELECT	10uF	20%	50V	
C277	1-136-165-00	FILM	0.1uF	5%	50V	
C278	1-124-927-11	ELECT	4.7uF	20%	100V	
		< CONNECTOR >				
CNP241	1-695-089-11	PIN, CONNECTOR (PC BOARD) 11P				
* CNP255	1-564-518-11	PLUG, CONNECTOR 3P				
		< IC >				
IC251	8-759-061-95	IC SN761200				
IC252	8-759-061-95	IC SN761200				
IC253	8-759-061-95	IC SN761200				
		< JACK >				
J201	1-766-399-11	JACK, PIN 3P (VIDEO 2/LD/TV IN)				
J202	1-766-400-11	JACK, PIN 2P (VIDEO 1 IN, VIDEO 2 OUT)				
J203	1-766-400-11	JACK, PIN 2P (MONITOR/VIDEO 1 OUT)				
J204	1-764-676-11	CONNECTOR (ROUND TYPE) (MONITOR/VIDEO 1 S VIDEO OUT)				
J205	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO 1 S VIDEO IN, VIDEO 2 S VIDEO OUT)				
J206	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO 2 S VIDEO IN, LD S VIDEO IN)				
		< COIL >				
L251	1-410-509-11	INDUCTOR	10uH			
L252	1-410-509-11	INDUCTOR	10uH			
		< TRANSISTOR >				
Q251	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q252	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q253	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q254	8-729-900-63	TRANSISTOR	DTA124ES			
Q255	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q256	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q257	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q258	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q259	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q260	8-729-119-76	TRANSISTOR	2SA1175-HFE			
		< RESISTOR >				
R240	1-247-807-31	CARBON	100	5%	1/4W	
R241	1-247-811-31	CARBON	150	5%	1/4W	
R242	1-247-807-31	CARBON	100	5%	1/4W	
R243	1-247-811-31	CARBON	150	5%	1/4W	
R244	1-247-811-31	CARBON	150	5%	1/4W	
R245	1-247-807-31	CARBON	100	5%	1/4W	
R246	1-247-807-31	CARBON	100	5%	1/4W	
R247	1-249-411-11	CARBON	330	5%	1/4W	
R248	1-247-807-31	CARBON	100	5%	1/4W	
R249	1-249-411-11	CARBON	330	5%	1/4W	
R251	1-249-403-11	CARBON	68	5%	1/4W	F
R252	1-249-429-11	CARBON	10K	5%	1/4W	
R253	1-247-804-11	CARBON	75	5%	1/4W	
R254	1-249-403-11	CARBON	68	5%	1/4W	F
R255	1-249-429-11	CARBON	10K	5%	1/4W	
R256	1-247-804-11	CARBON	75	5%	1/4W	
R257	1-249-403-11	CARBON	68	5%	1/4W	F
R258	1-249-429-11	CARBON	10K	5%	1/4W	
R259	1-247-804-11	CARBON	75	5%	1/4W	
R260	1-247-804-11	CARBON	75	5%	1/4W	
R261	1-247-811-31	CARBON	150	5%	1/4W	
R262	1-247-807-31	CARBON	100	5%	1/4W	
R263	1-247-811-31	CARBON	150	5%	1/4W	
R264	1-247-807-31	CARBON	100	5%	1/4W	
R265	1-247-811-31	CARBON	150	5%	1/4W	
R266	1-247-807-31	CARBON	100	5%	1/4W	
R267	1-249-403-11	CARBON	68	5%	1/4W	F
R268	1-249-429-11	CARBON	10K	5%	1/4W	
R270	1-249-429-11	CARBON	10K	5%	1/4W	
R279	1-249-403-11	CARBON	68	5%	1/4W	F
R280	1-247-804-11	CARBON	75	5%	1/4W	
R281	1-247-804-11	CARBON	75	5%	1/4W	
R282	1-249-403-11	CARBON	68	5%	1/4W	F
R283	1-249-429-11	CARBON	10K	5%	1/4W	
R284	1-249-403-11	CARBON	68	5%	1/4W	F
R285	1-249-429-11	CARBON	10K	5%	1/4W	
R286	1-247-804-11	CARBON	75	5%	1/4W	
R287	1-247-804-11	CARBON	75	5%	1/4W	
R288	1-249-403-11	CARBON	68	5%	1/4W	F
R289	1-249-429-11	CARBON	10K	5%	1/4W	
R290	1-249-403-11	CARBON	68	5%	1/4W	F

VIDEO INPUT | VIDEO-3 | VOLUME | VOLUME JOINT

Ref.No.	Part No.	Description				Remark
R291	1-249-429-11	CARBON	10K	5%	1/4W	
R292	1-247-804-11	CARBON	75	5%	1/4W	
R293	1-247-804-11	CARBON	75	5%	1/4W	
R294	1-247-807-31	CARBON	100	5%	1/4W	
R295	1-249-411-11	CARBON	330	5%	1/4W	
**********						
*	1-652-959-11	VIDEO-3 BOARD (GX900ES)				
		**********				
*	1-652-970-11	VIDEO-3 BOARD (GX800ES)				
		**********				
		< CONNECTOR >				
CNJ207	1-764-190-11	JACK, PIN 3P (VIDEO 3 INPUT)				
* CNP230	1-564-522-11	PLUG, CONNECTOR 7P				
		< RESISTOR >				
R250	1-247-804-11	CARBON	75	5%	1/4W	
R296	1-247-804-11	CARBON	75	5%	1/4W	
R297	1-247-804-11	CARBON	75	5%	1/4W	
R537	1-249-417-11	CARBON	1K	5%	1/4W	F
R587	1-249-417-11	CARBON	1K	5%	1/4W	F
**********						
*	1-652-960-11	VOLUME BOARD (GX900ES)				
		**********				
*	1-652-971-11	VOLUME BOARD (GX800ES)				
		**********				
		< CAPACITOR >				
C598	1-124-903-11	ELECT	1uF	20%	50V	
C599	1-124-903-11	ELECT	1uF	20%	50V	
		< CONNECTOR >				
* CNP551	1-691-180-11	CONNECTOR (BOARD TO BOARD) 10P				
CNP552	1-691-768-11	PLUG (MICRO CONNECTOR) 6P				
		< VARIABLE RESISTOR >				
RV503	1-241-563-11	RES, VAR, CARBON 100KX4 (MASTER VOLUME)				
**********						

Ref.No.	Part No.	Description	Remark
*	1-653-019-11	VOLUME JOINT BOARD (GX900ES)	
		**********	
*	1-653-020-11	VOLUME JOINT BOARD (GX800ES)	
		**********	
		< CONNECTOR >	
CNP560	1-766-553-11	PLUG, CONNECTOR 10P	
CNS551	1-691-167-11	PIN, CONNECTOR 10P	
		< RESISTOR >	
R599	1-247-811-31	CARBON 150 5% 1/4W	(GX900ES)
**********			
		MISCELLANEOUS	
		**********	
11	1-765-301-11	WIRE (FLAT TYPE) (15 CORE)	
12	1-765-302-11	WIRE (FLAT TYPE) (17 CORE) (GX900ES)	
12	1-765-311-11	WIRE (FLAT TYPE) (33 CORE) (GX800ES)	
⚠51	1-559-479-11	CORD, POWER (GX800ES/GX900ES:US, CND)	
⚠51	1-574-805-11	CORD, POWER (GX900ES:AEP)	
⚠51	1-590-074-11	CORD, POWER (GX900ES:E)	
⚠51	1-690-608-11	CORD, POWER (GX900ES:AUS)	
⚠52	1-569-007-11	ADAPTER, CONVERSION 2P (GX900ES:E)	
54	1-769-077-31	LEAD (WITH CONNECTOR) (2 CORE)	(GX800ES/GX900ES:US, CND)
54	1-769-078-31	LEAD (WITH CONNECTOR) (2 CORE)	(GX900ES:AEP, AUS)
⚠F902	1-532-350-00	TIME LAG FUSE (T4AL 250V)	(GX900ES:AEP, E, AUS)
⚠F902	1-532-749-11	FUSE, GLASS TUBE (8A 125V)	(GX800ES/GX900ES:US, CND)
⚠F903	1-532-350-00	TIME LAG FUSE (T4AL 250V)	(GX900ES:AEP, AUS)
⚠F904	1-532-350-00	TIME LAG FUSE (T4AL 250V) (GX900ES:E)	
⚠F951	1-532-299-00	TIME LAG FUSE (T5AL 250V)	(GX900ES:AEP, E, AUS)
⚠F951	1-576-109-11	FUSE (5.0A 125V) (GX800ES/GX900ES:US, CND)	
⚠F952	1-532-350-00	TIME LAG FUSE (T4AL 250V)	(GX900ES:AEP, E, AUS)
⚠F952	1-576-108-11	FUSE (4A 125V) (GX800ES/GX900ES:US, CND)	
⚠F953	1-532-299-00	TIME LAG FUSE (T5AL 250V)	(GX900ES:AEP, E, AUS)
⚠F953	1-576-109-11	FUSE (5A 125V) (GX800ES/GX900ES:US, CND)	
⚠F954	1-532-506-51	TIME LAG FUSE (T6.3AL 250V)	(GX900ES:AEP, E, AUS)
⚠F954	1-532-749-11	FUSE, GLASS TUBE (8A 125V)	(GX800ES/GX900ES:US, CND)
⚠F955	1-532-506-51	TIME LAG FUSE (T6.3AL 250V)	(GX900ES:AEP, E, AUS)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠F955	1-532-749-11	FUSE, GLASS TUBE (8A 125V) (GX800ES/GX900ES:US, CND)	
IC601	8-759-085-89	IC LM3875-S	
IC631	8-759-085-89	IC LM3875-S	
Q602	8-749-010-43	IC NE-N250	
Q603	8-749-010-42	IC NE-P250	
Q651	8-729-026-08	TRANSISTOR 2SC4495	
Q701	8-729-026-08	TRANSISTOR 2SC4495	
Q702	8-749-010-43	IC NE-N250	
Q703	8-749-010-42	IC NE-P250	
Q751	8-729-026-08	TRANSISTOR 2SC4495	
Q752	8-749-010-43	IC NE-N250	
Q753	8-749-010-42	IC NE-P250	
⚠T902	1-426-877-11	TRANSFORMER, POWER (GX800ES/GX900ES:US)	
⚠T902	1-426-878-11	TRANSFORMER, POWER (GX800ES/GX900ES:CND)	
⚠T902	1-426-879-11	TRANSFORMER, POWER (GX900ES:E)	
⚠T902	1-426-887-11	TRANSFORMER, POWER (GX900ES:AEP, AUS)	

****

ACCESSORIES & PACKING MATERIALS

****

	1-467-638-11	REMOTE COMMANDER (RM-P341)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (GX900ES:AEP, AUS)	
	3-758-872-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (GX900ES:AEP)	
	3-758-872-21	MANUAL, INSTRUCTION (ENGLISH) (GX800ES/GX900ES:US, CND, AUS)	
	3-758-872-31	MANUAL, INSTRUCTION (FRENCH) (GX800ES/GX900ES:CND)	
	3-758-872-41	MANUAL, INSTRUCTION (SPANISH, SWEDISH, DANISH, FINNISH) (GX900ES:AEP)	
	3-758-872-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (GX900ES:E)	
	4-925-079-11	COVER (6), BATTERY (RM-P341)	
	4-933-001-01	CUSHION	
*	4-967-067-01	INDIVIDUAL CARTON (GX900ES)	
*	4-967-069-01	INDIVIDUAL CARTON (GX800ES)	

****

****

HARDWARE LIST

****

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
#2	7-682-547-09	SCREW +BVTT 3X6 (S)
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3
#4	7-682-561-04	SCREW +BVTT 4X8 (S)
#5	7-682-548-04	SCREW +BVTT 3X8 (S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

English
94G0976-1
Printed in Japan
© 1994. 7
Published by Home A&V Products Div.
Quality Engineering Dept.

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

9-959-653-11